

Fig. 1

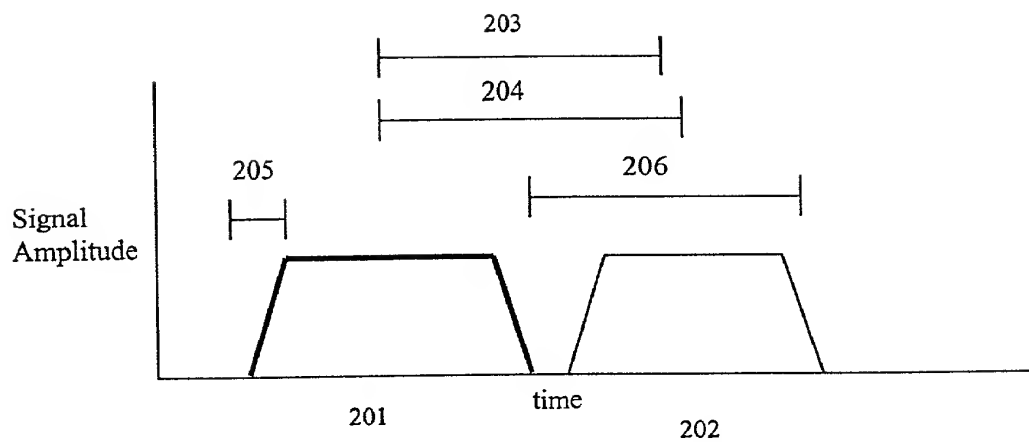


Fig. 2A

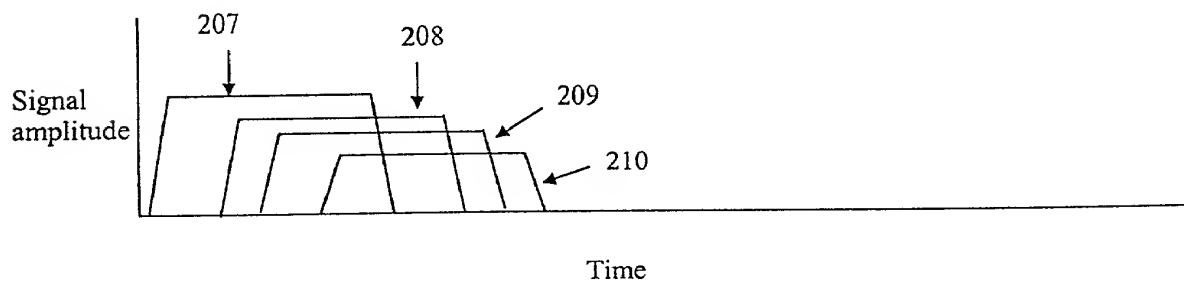


Fig. 2B

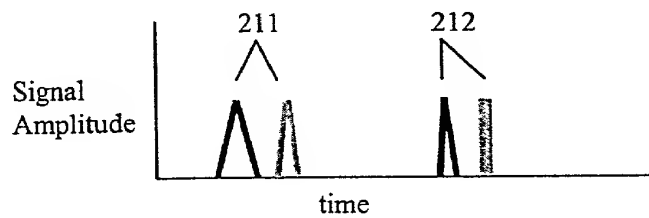


Fig. 2C

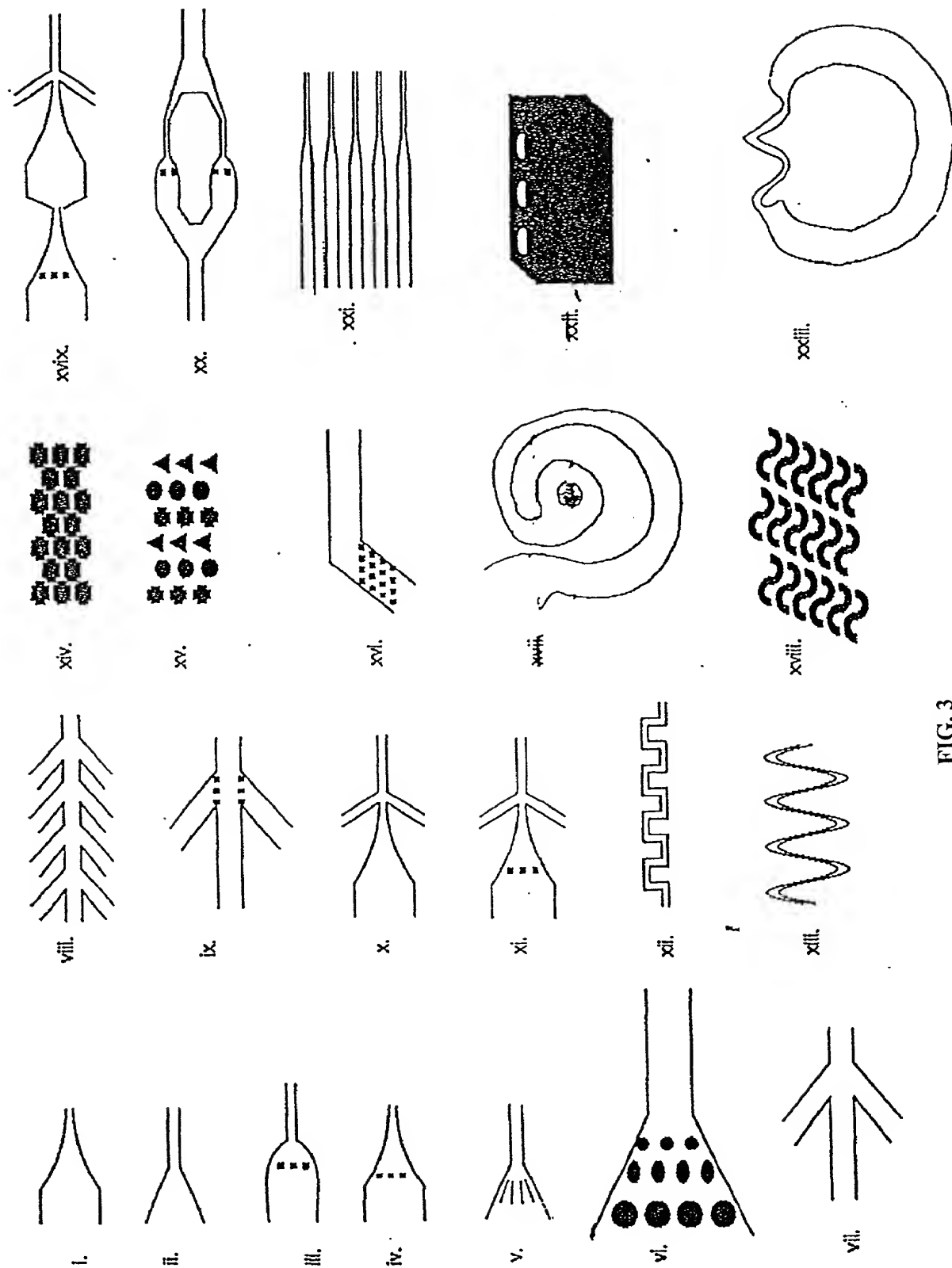


FIG. 3

10066-021

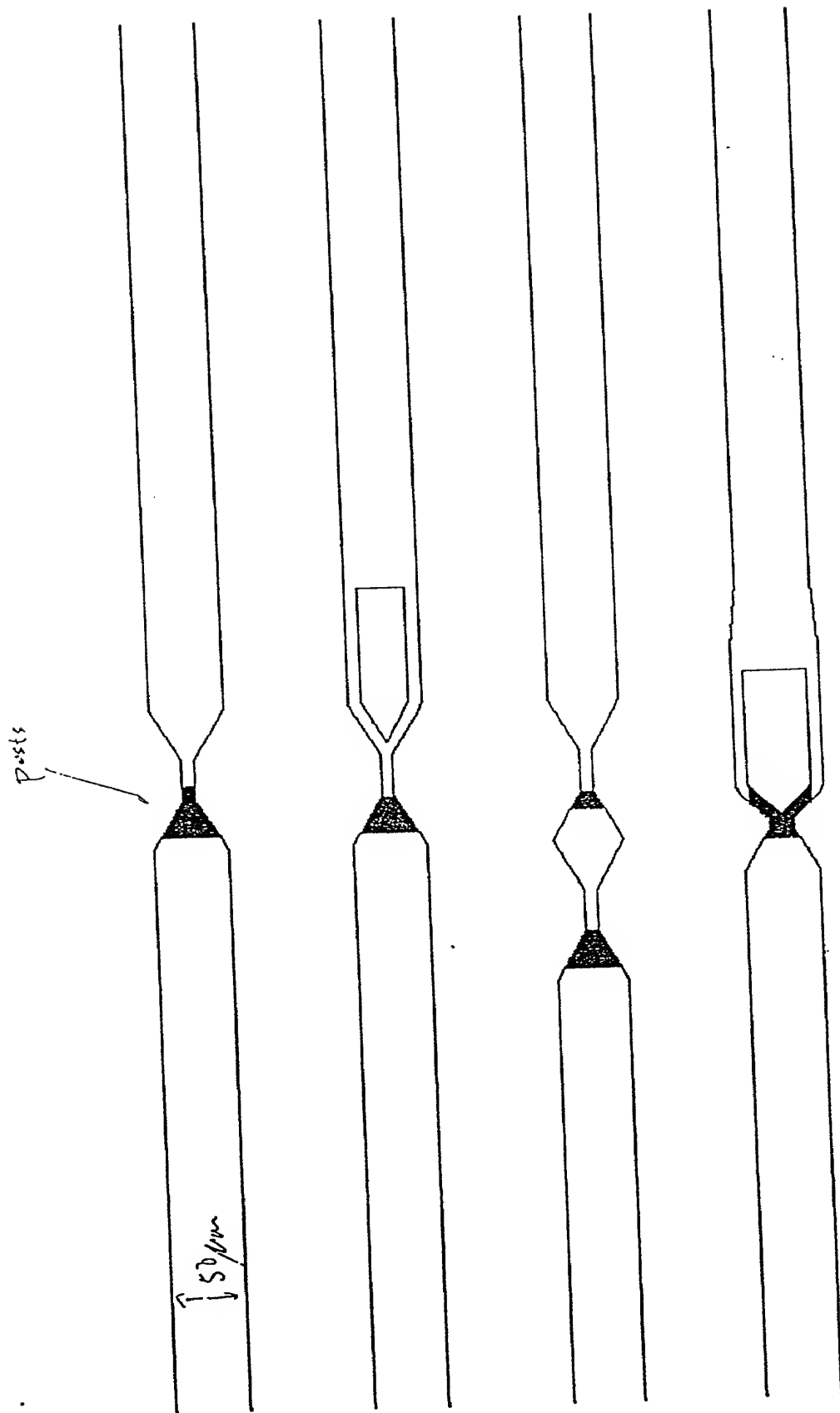


FIG. 4(a)

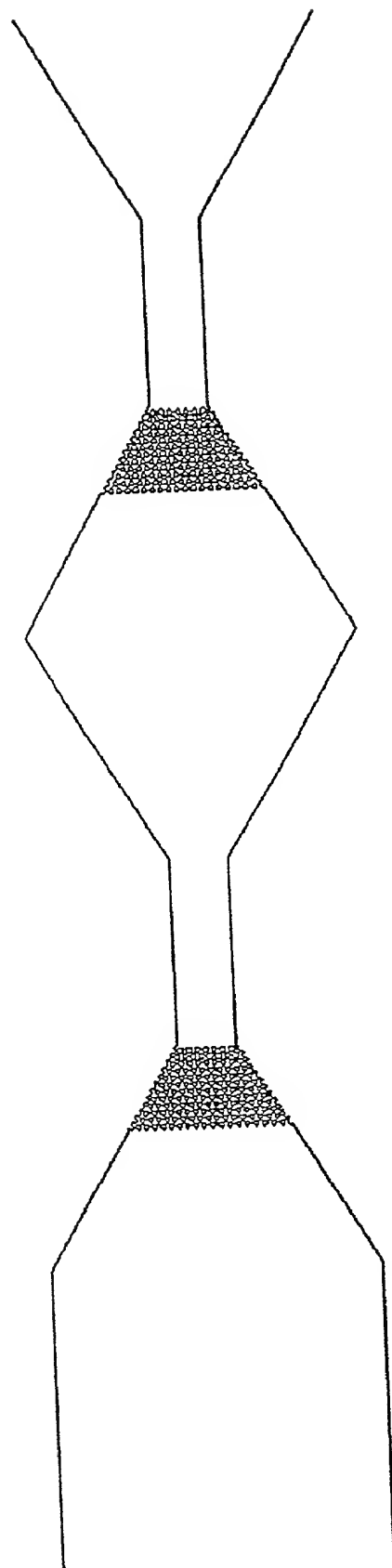


FIG. 4(b)

10066-021

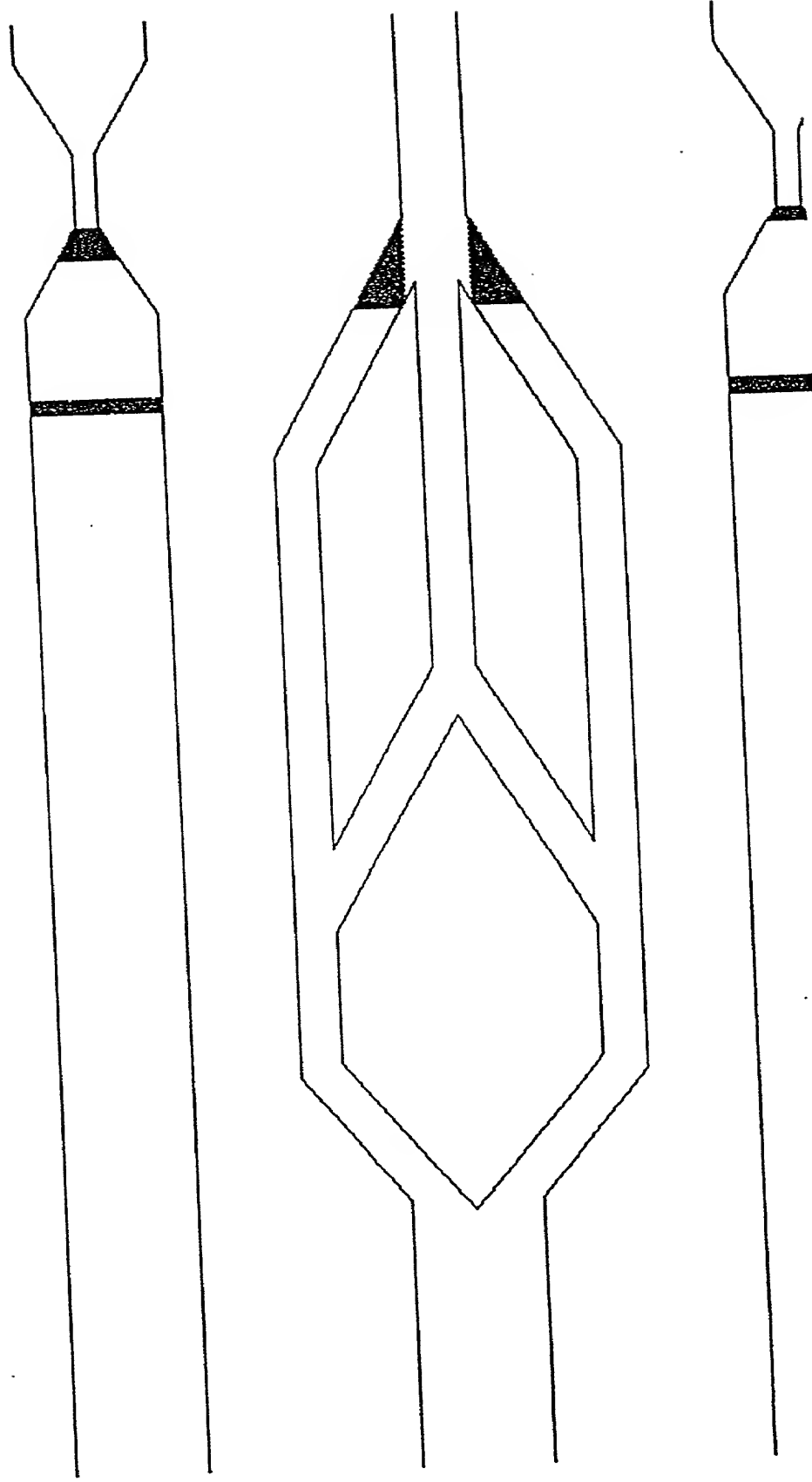


FIG. 4(c)

10066-021

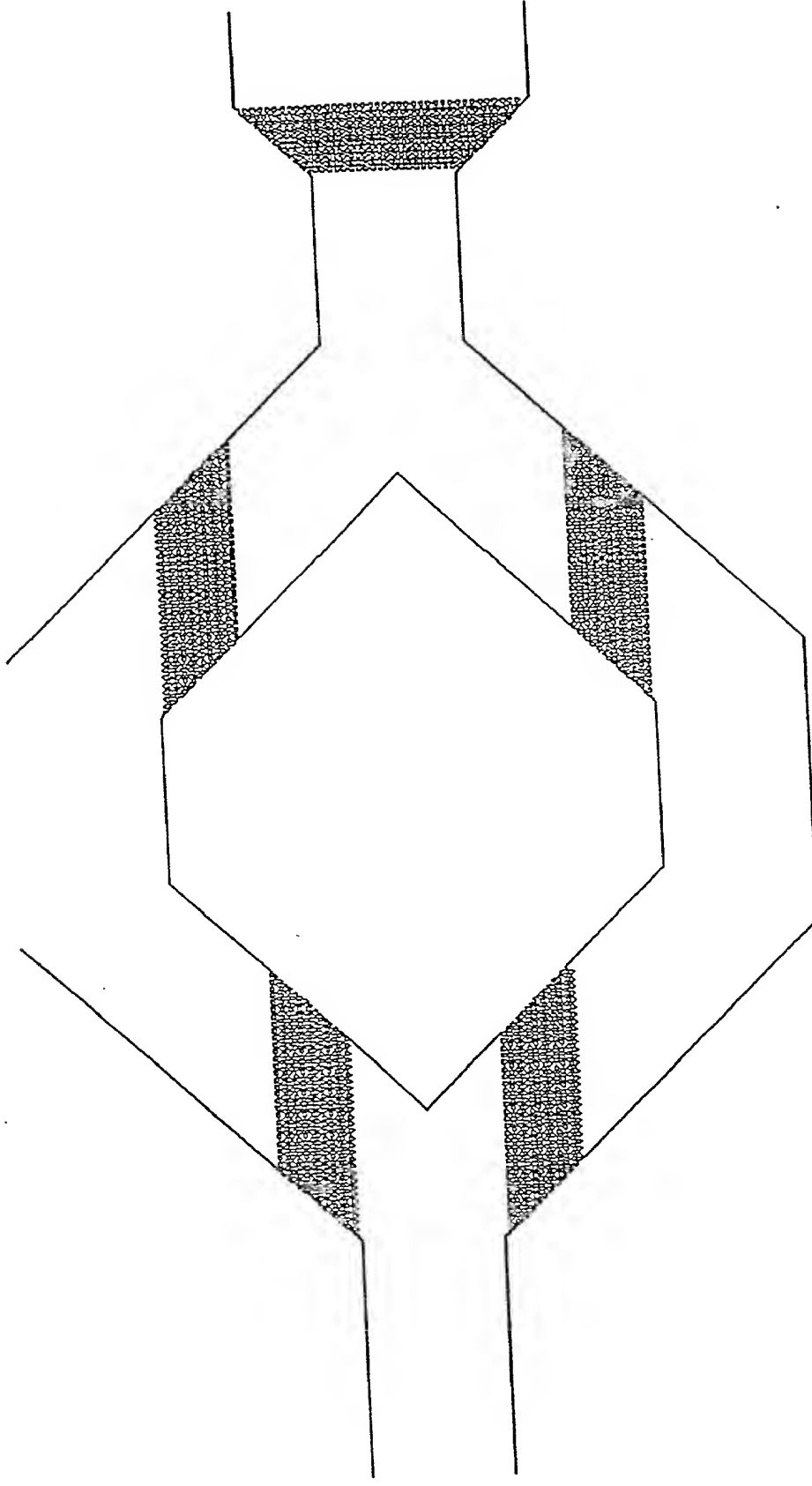


FIG. 4(d)

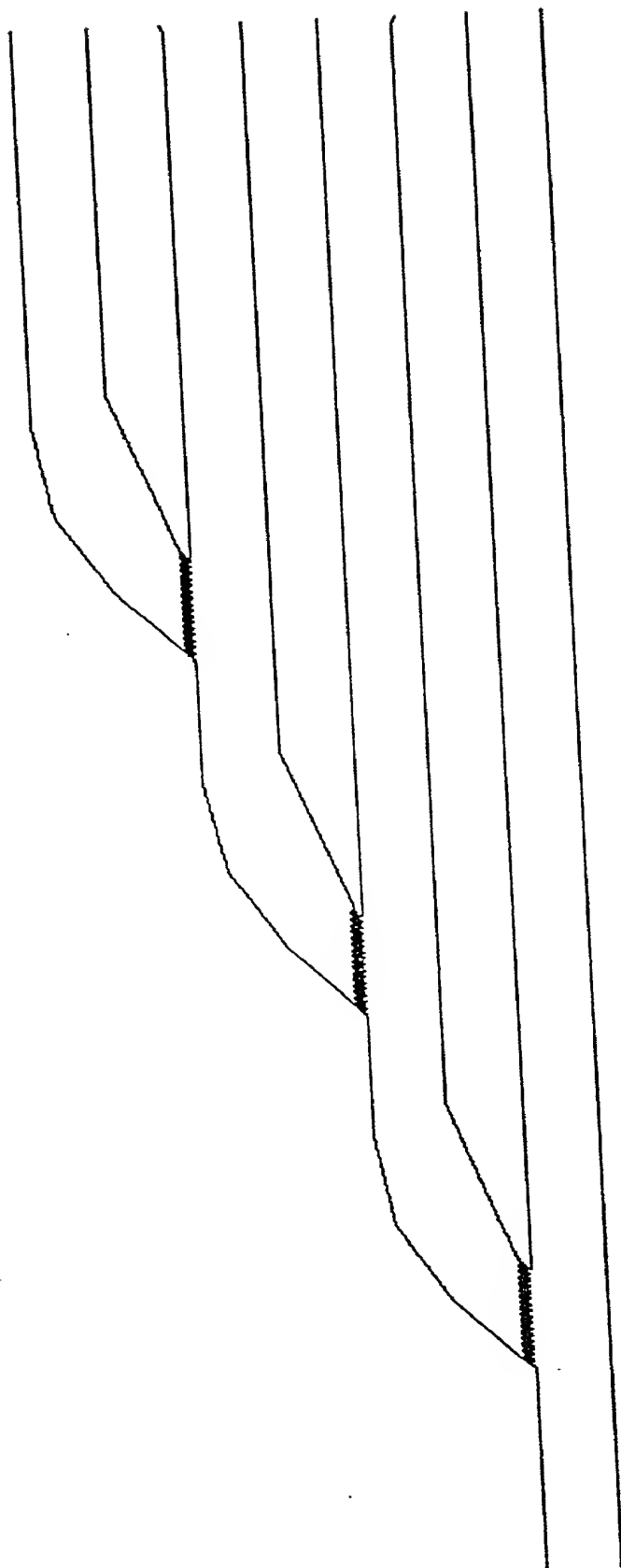


FIG. 4(e)



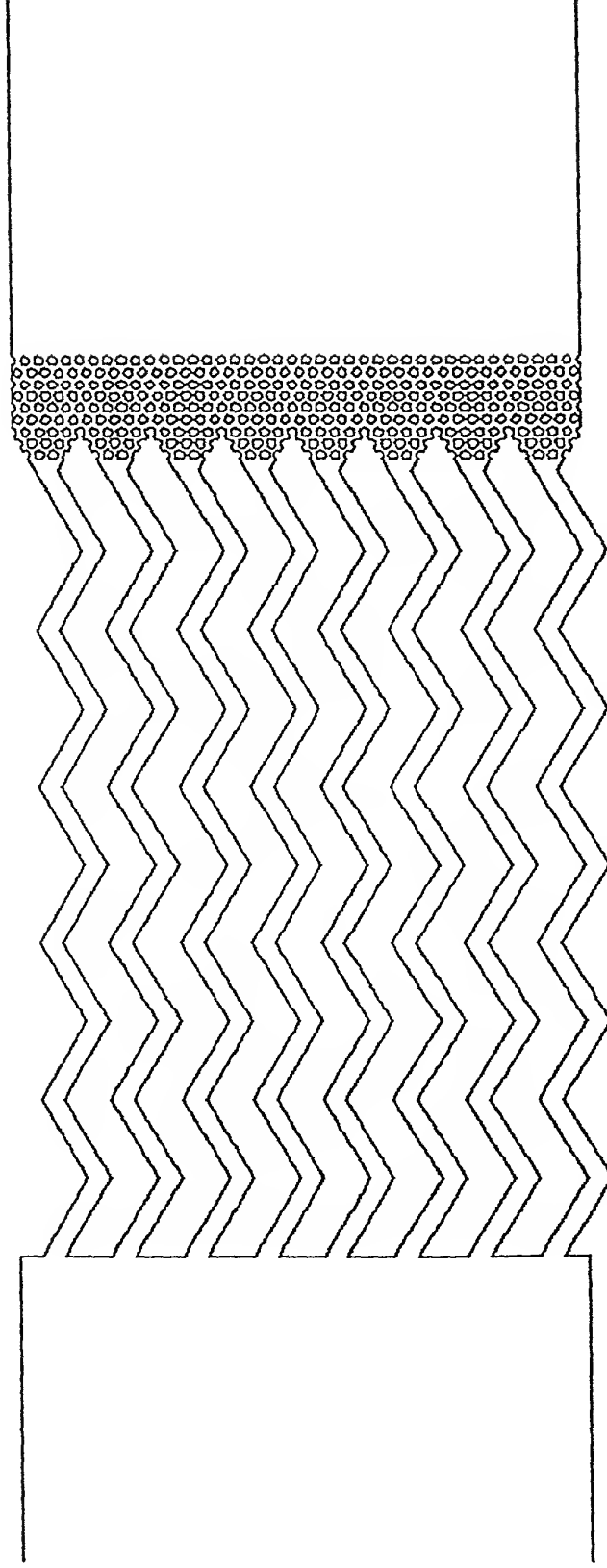


FIG. 4(f)

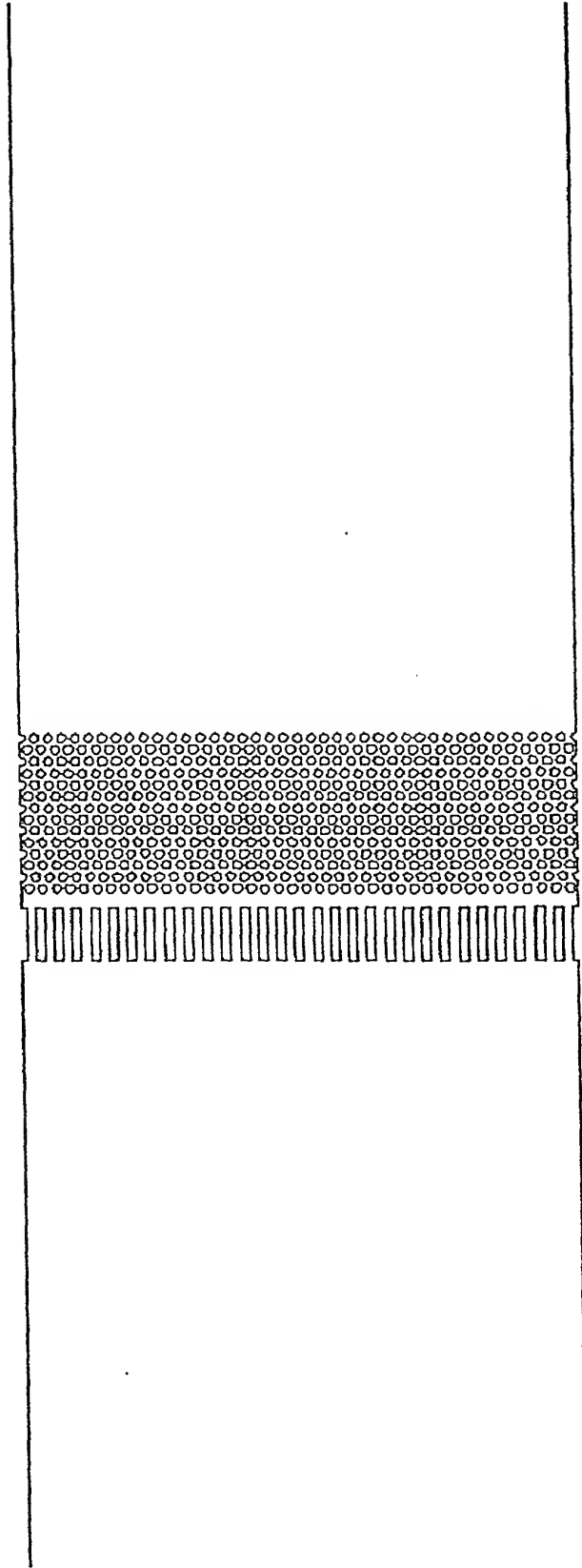


FIG. 4(g)

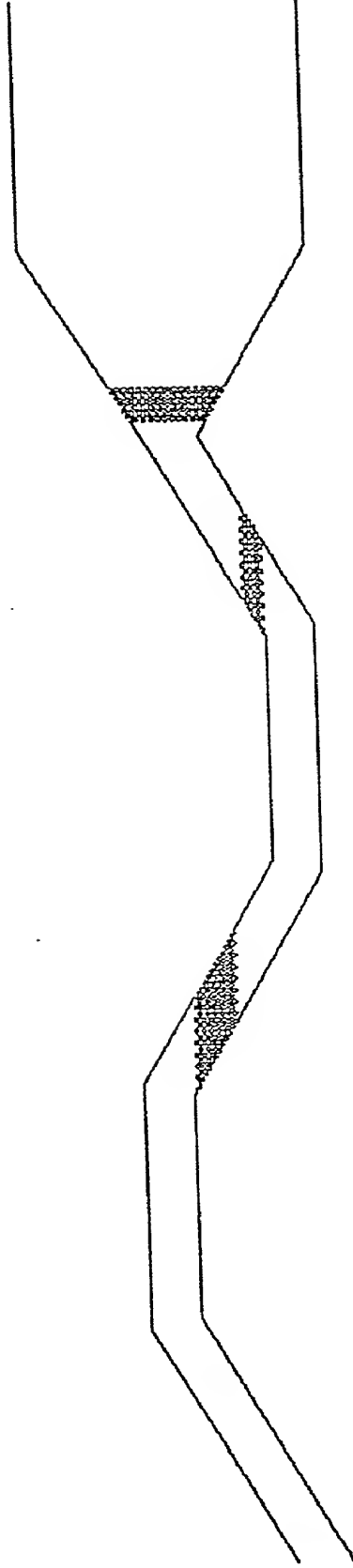


FIG. 4(h)

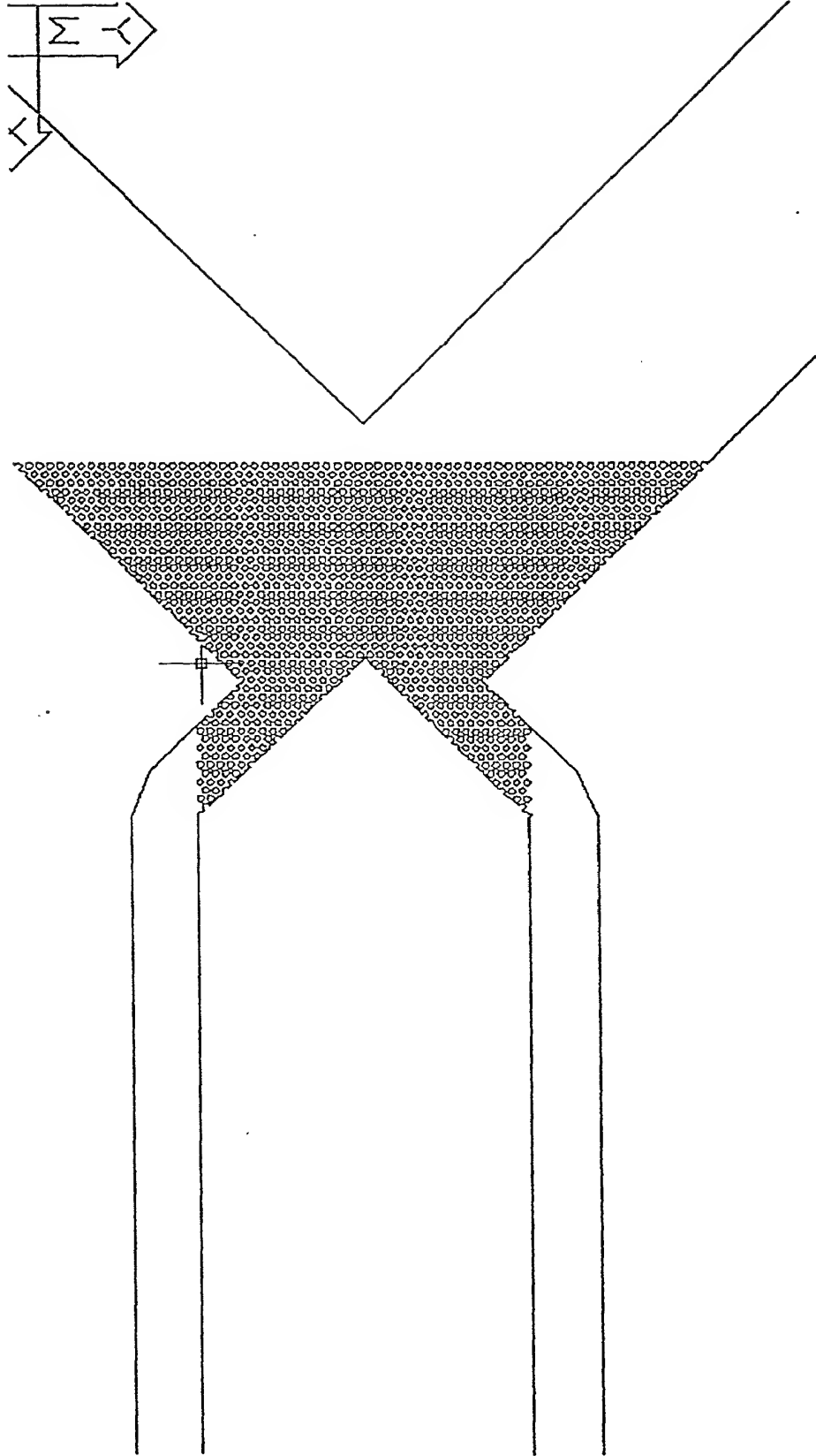


FIG. 4(i)

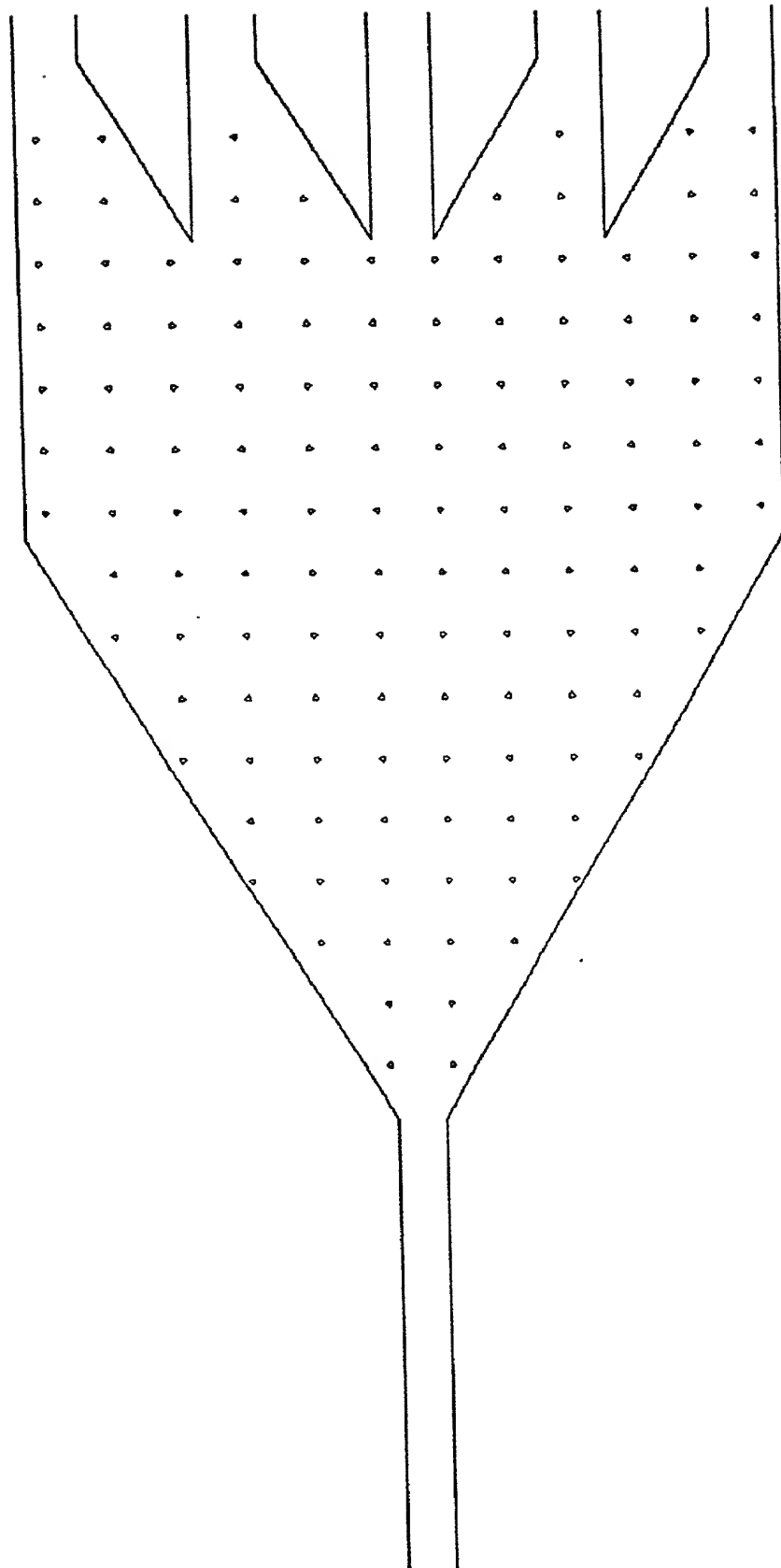


FIG. 4(j)

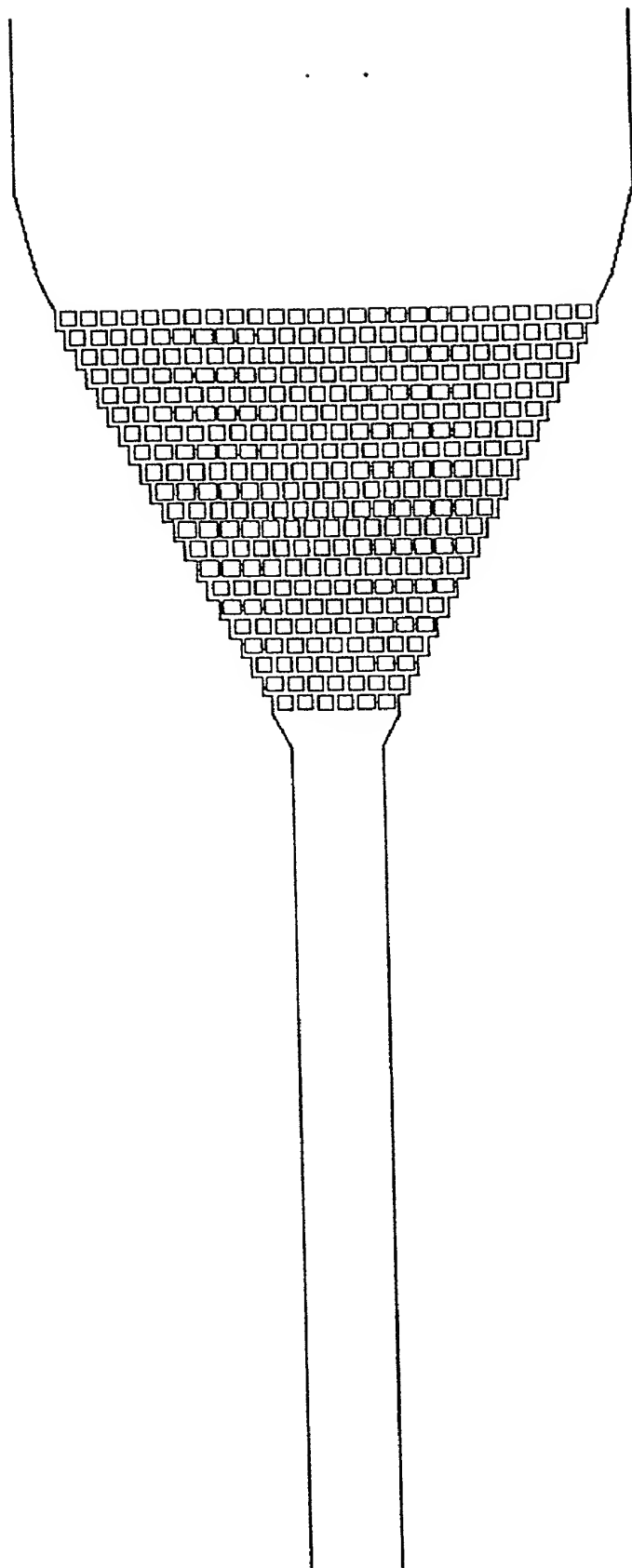


FIG. 4(k)

10066-021

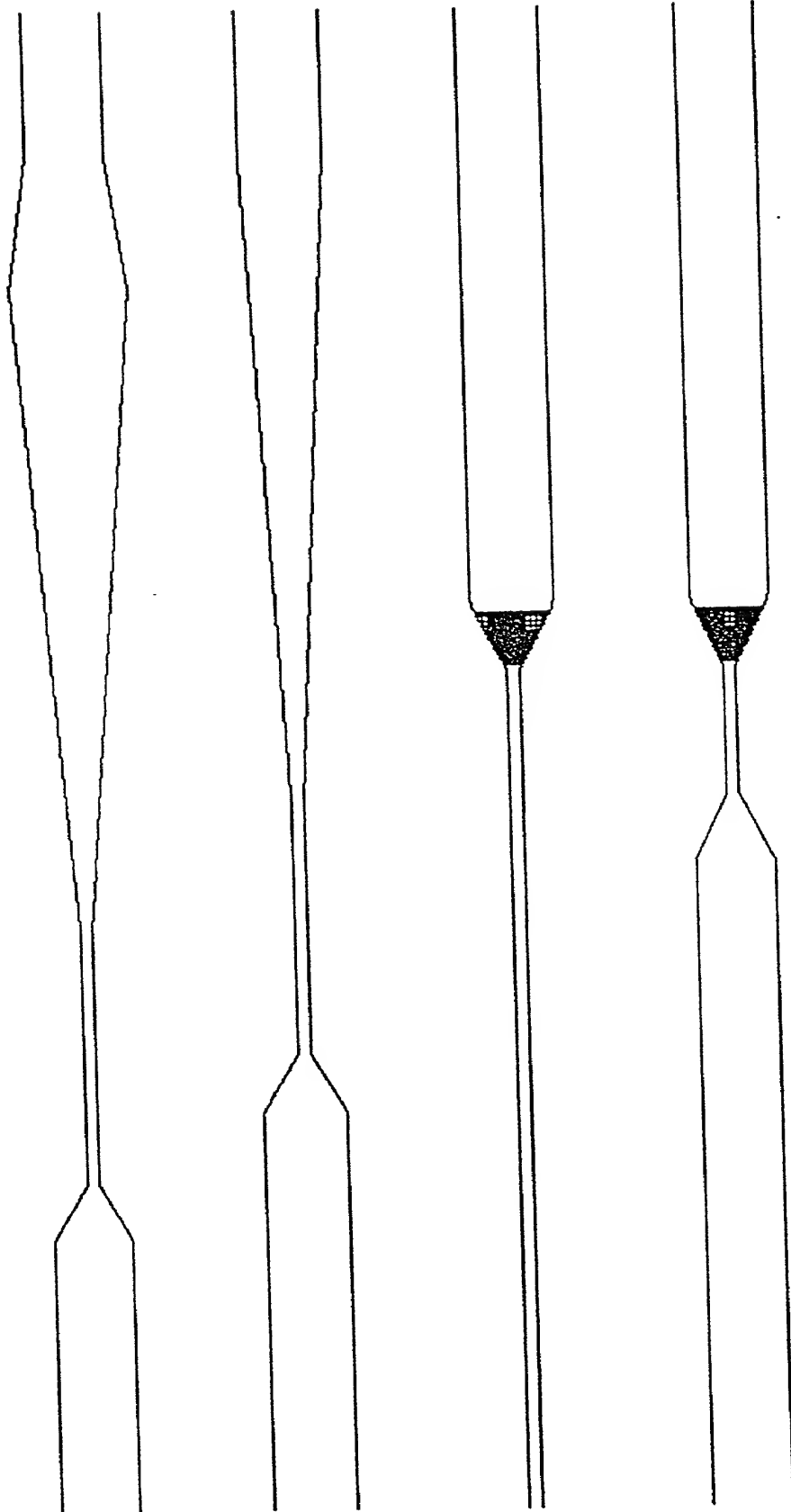


FIG. 4(l)

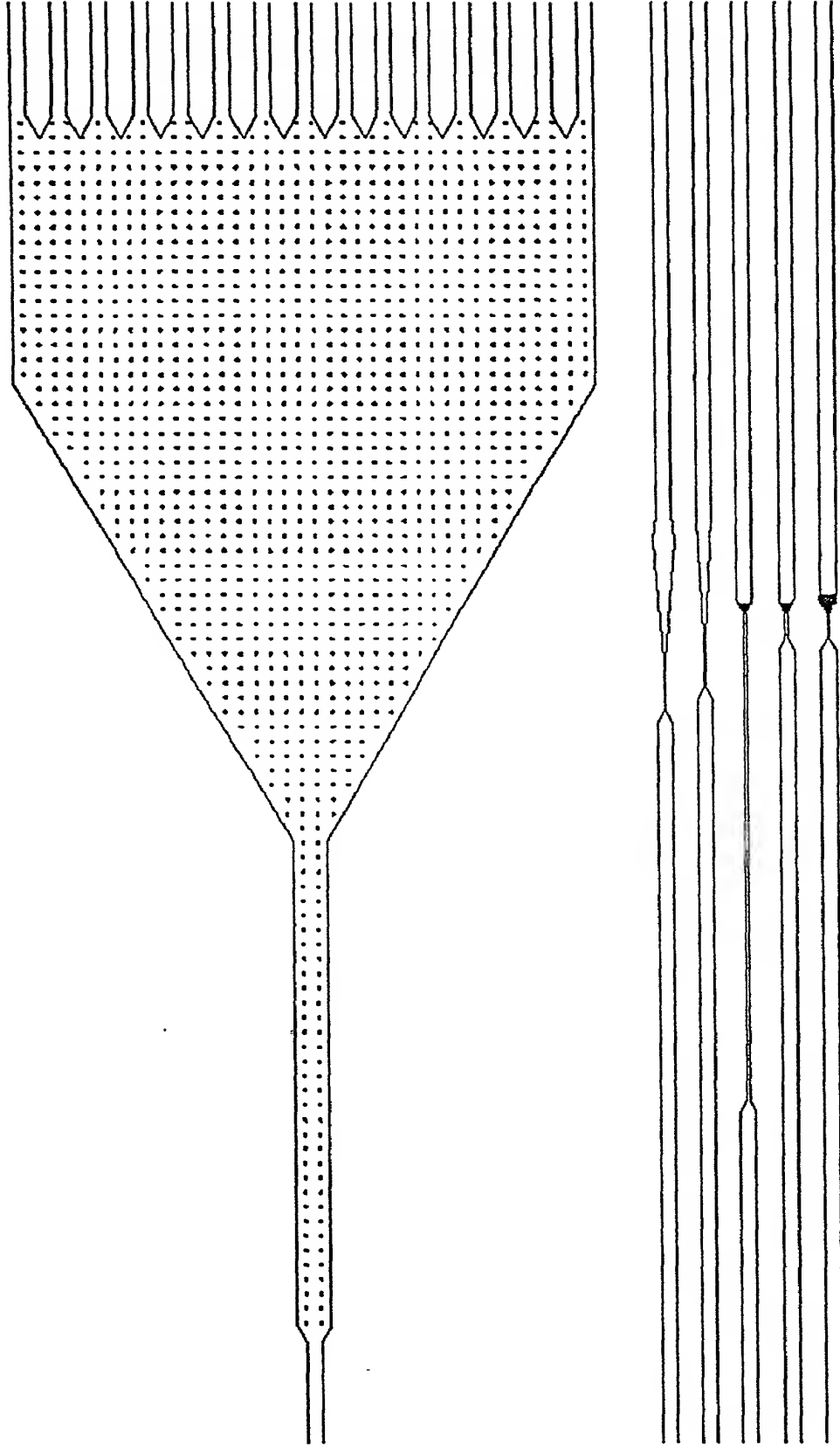


FIG. 4(m)



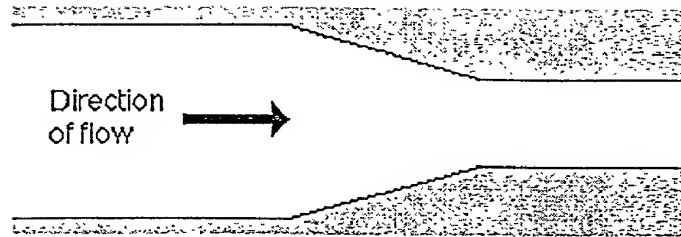


FIG. 5

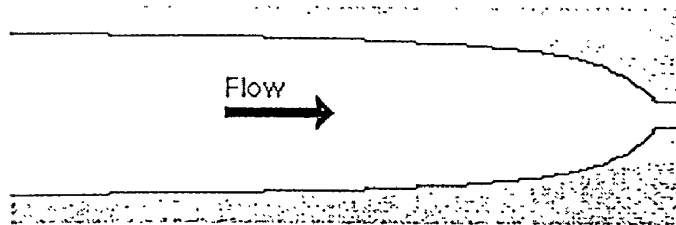


FIG. 6

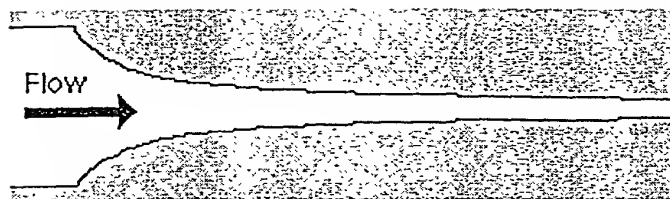


FIG. 7

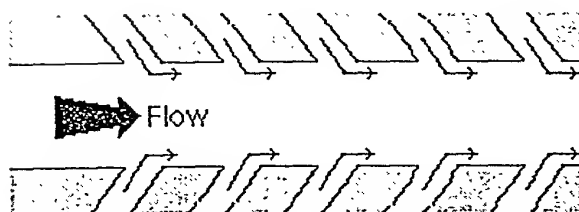


FIG. 8

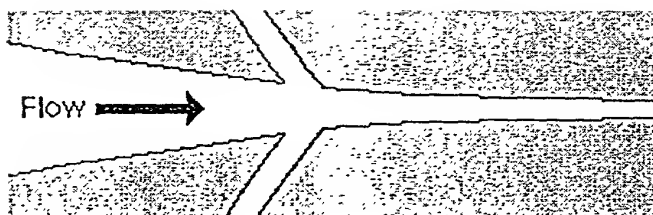


FIG. 9

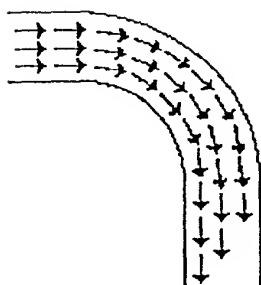


FIG. 10(a)

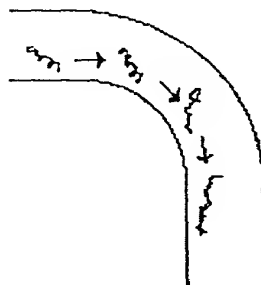


FIG. 10(b)

TOP SECRET

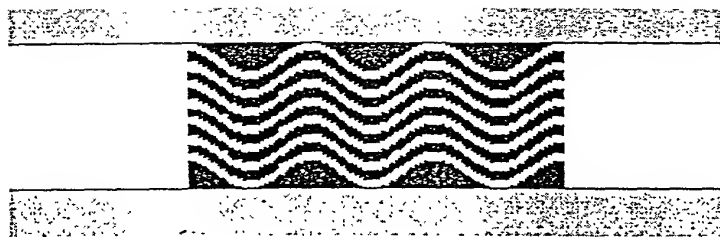


FIG. 11

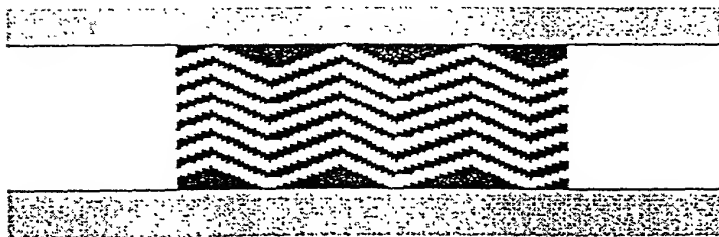


FIG. 12

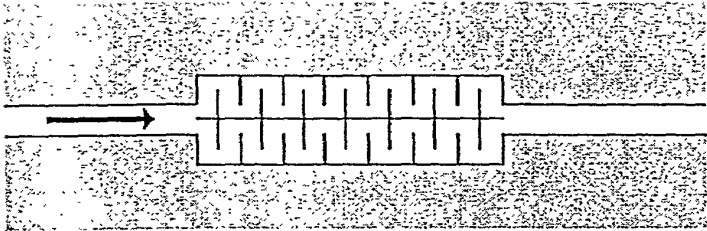


FIG. 13

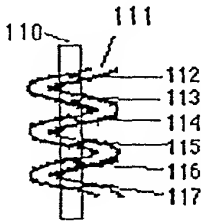


FIG. 14

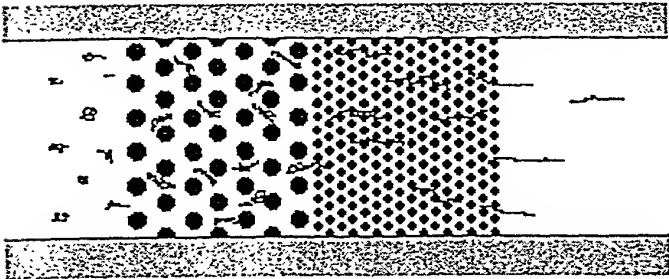
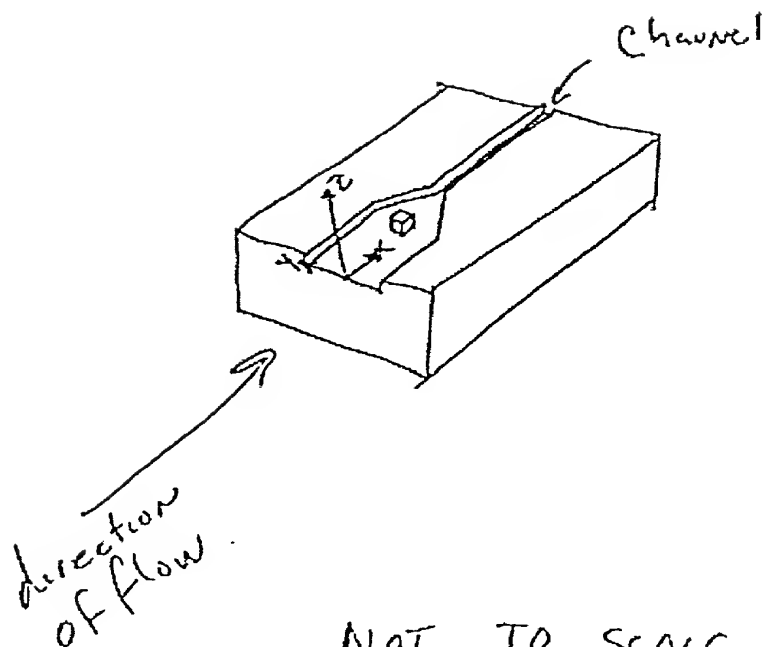


FIG. 15



NOT TO SCALE  
SHOWN WITHOUT COVER SLIP

FIG. 16

TOP SECRET

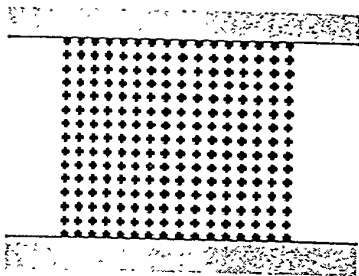


FIG. 17(a)

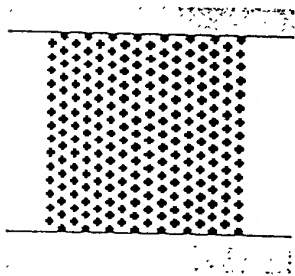


FIG. 17(b)

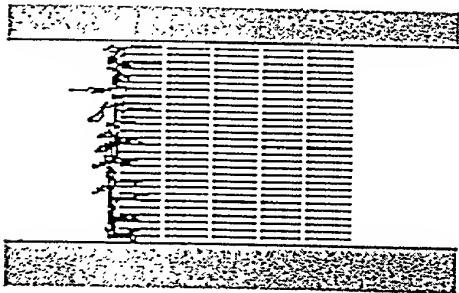


FIG. 18

FIG. 17(a) 2/4/83/20

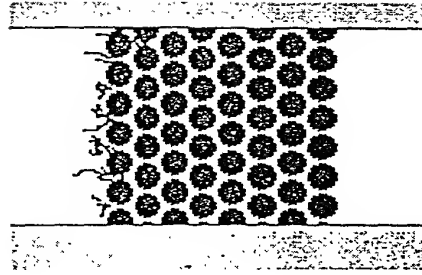


FIG. 19

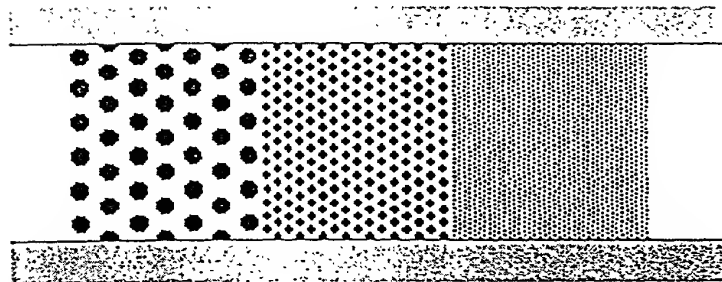


FIG. 20



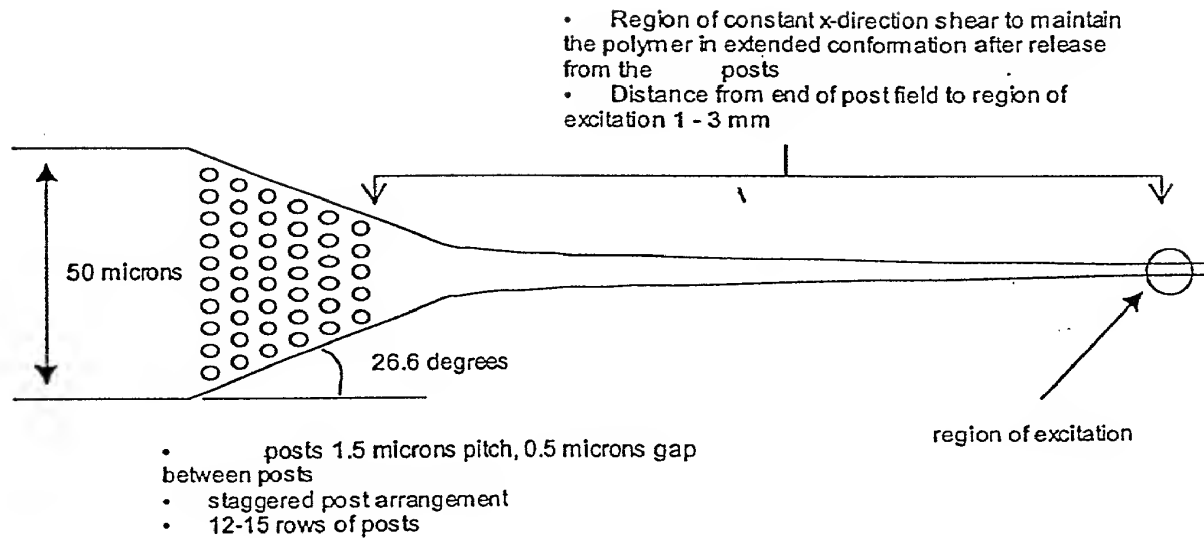
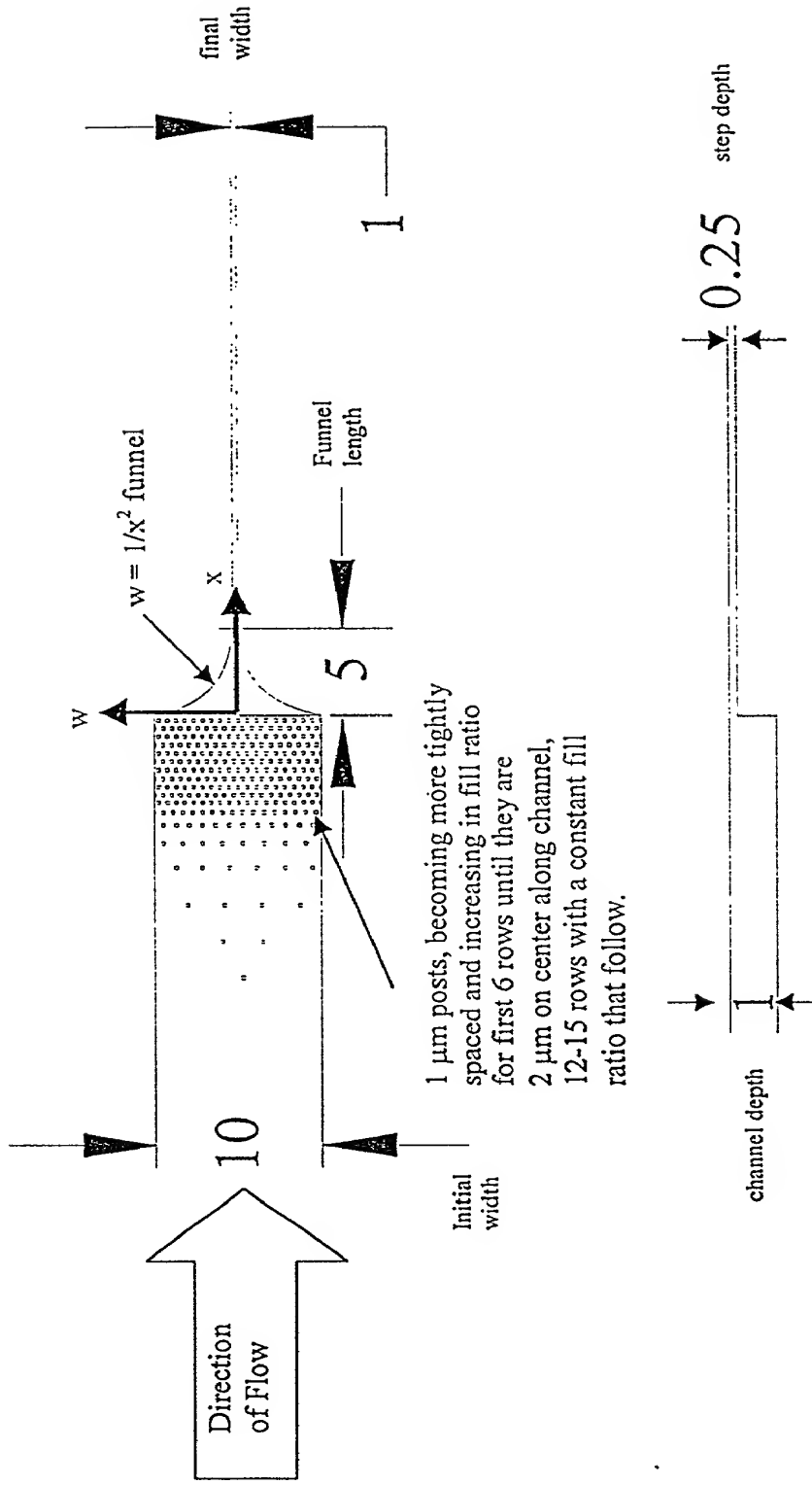


FIG. 21

10066-021

- Initial width / final width > 10
- Funnel length < 0.5 \* initial width
- Funnel faster than  $1/x$
- Step depth / channel depth  $\leq 1/4$



1  $\mu\text{m}$  posts, becoming more tightly spaced and increasing in fill ratio for first 6 rows until they are 2  $\mu\text{m}$  on center along channel, 12-15 rows with a constant fill ratio that follow.

Not To Scale, All Dimensions In

FIG. 22

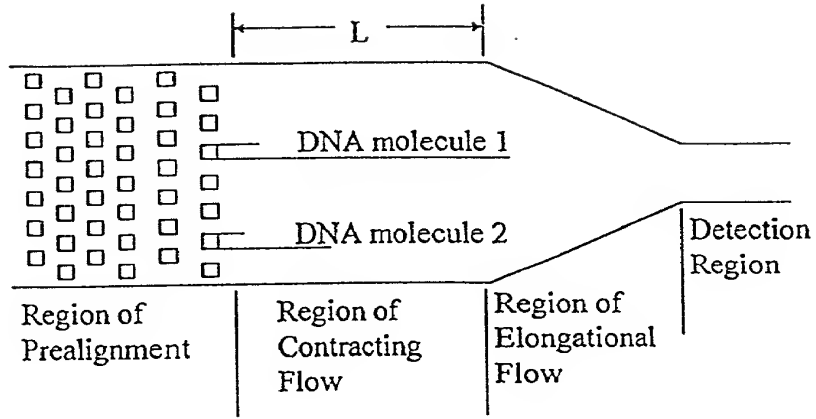


FIG. 23

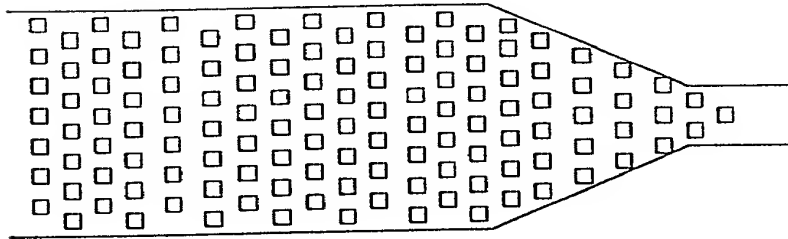


FIG. 24

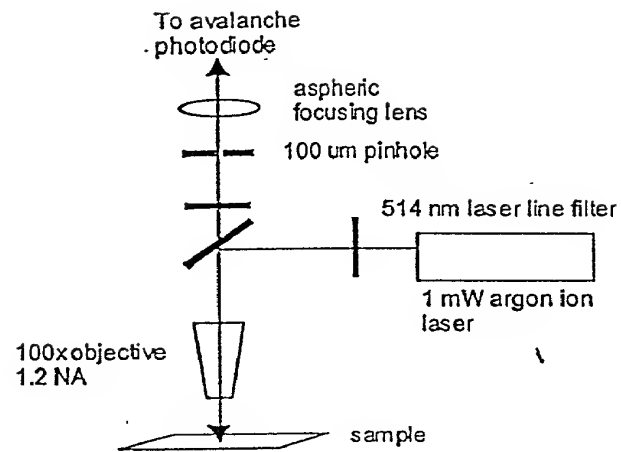


FIG. 25

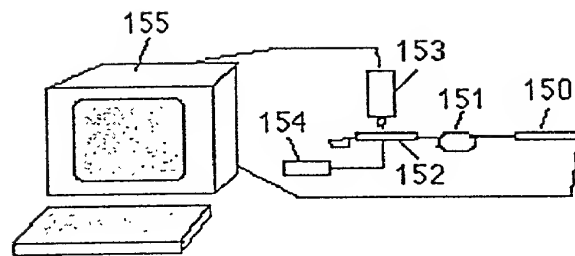


FIG. 26

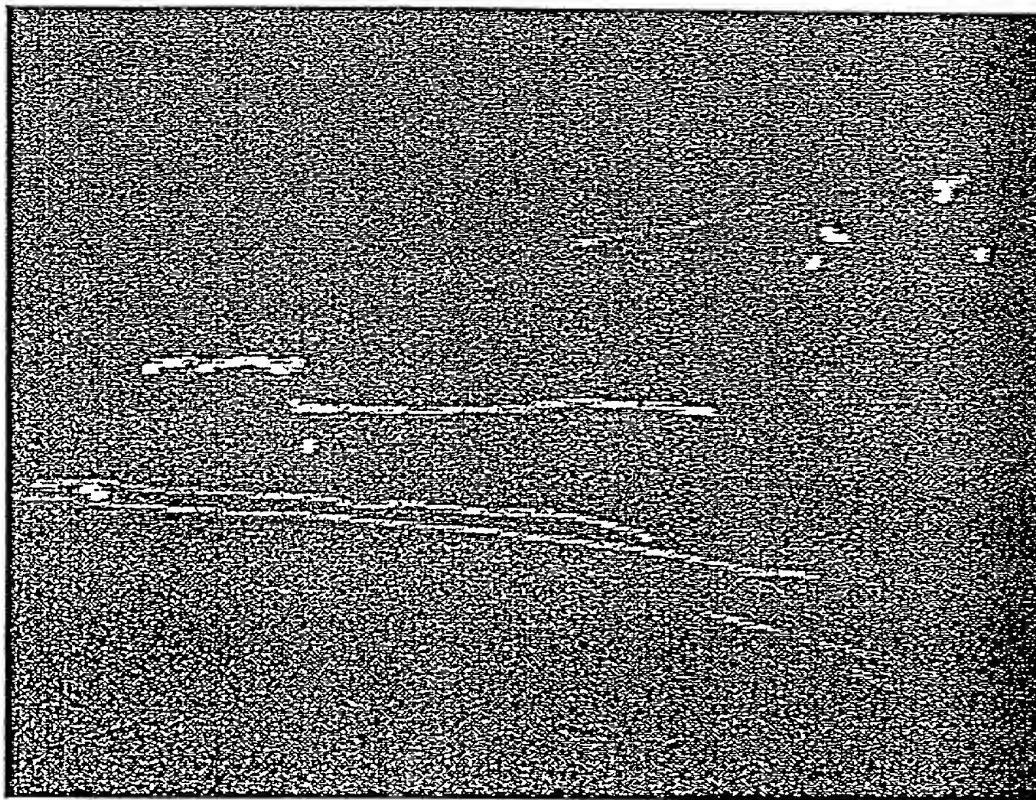


FIG. 27

10066-021 2/4/83 2/60

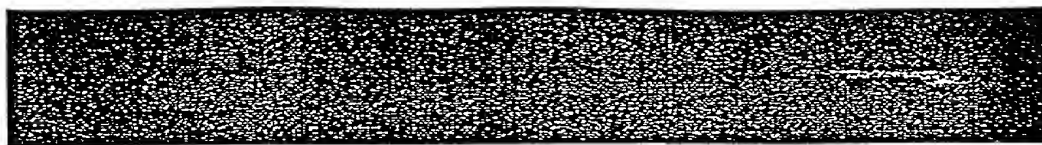


FIG. 28(a)

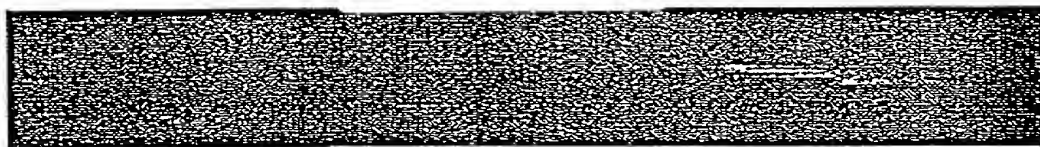


FIG. 28(b)

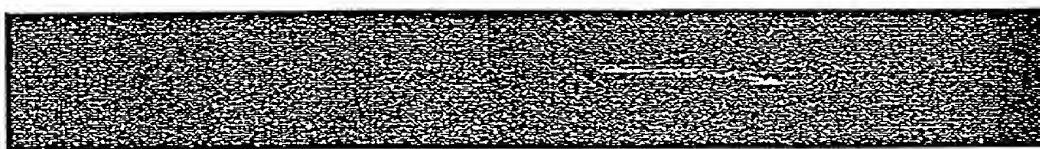


FIG. 28(c)

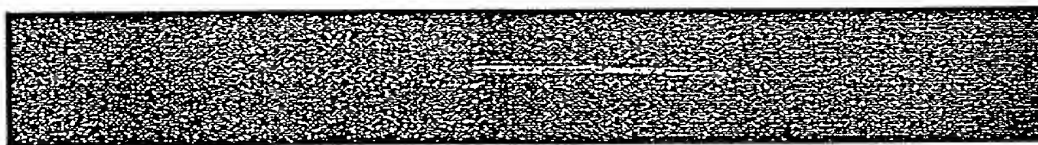


FIG. 28(d)

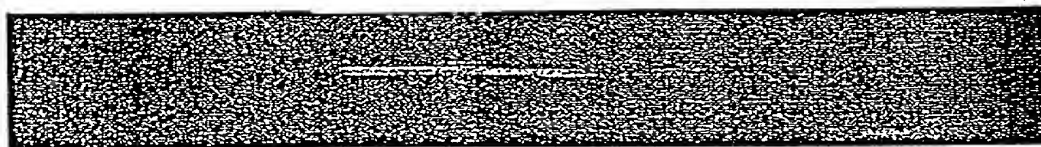


FIG. 28(e)

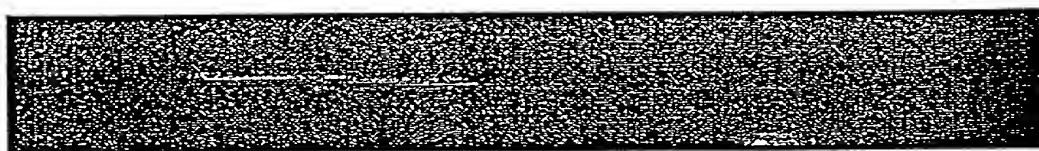


FIG. 28(f)

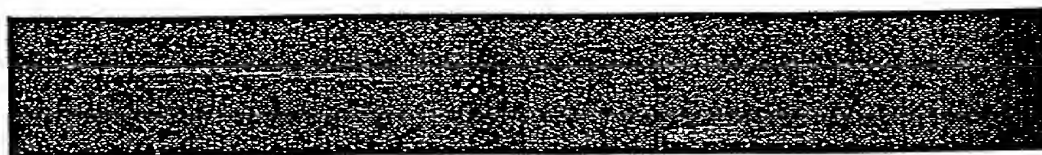


FIG. 28(g)

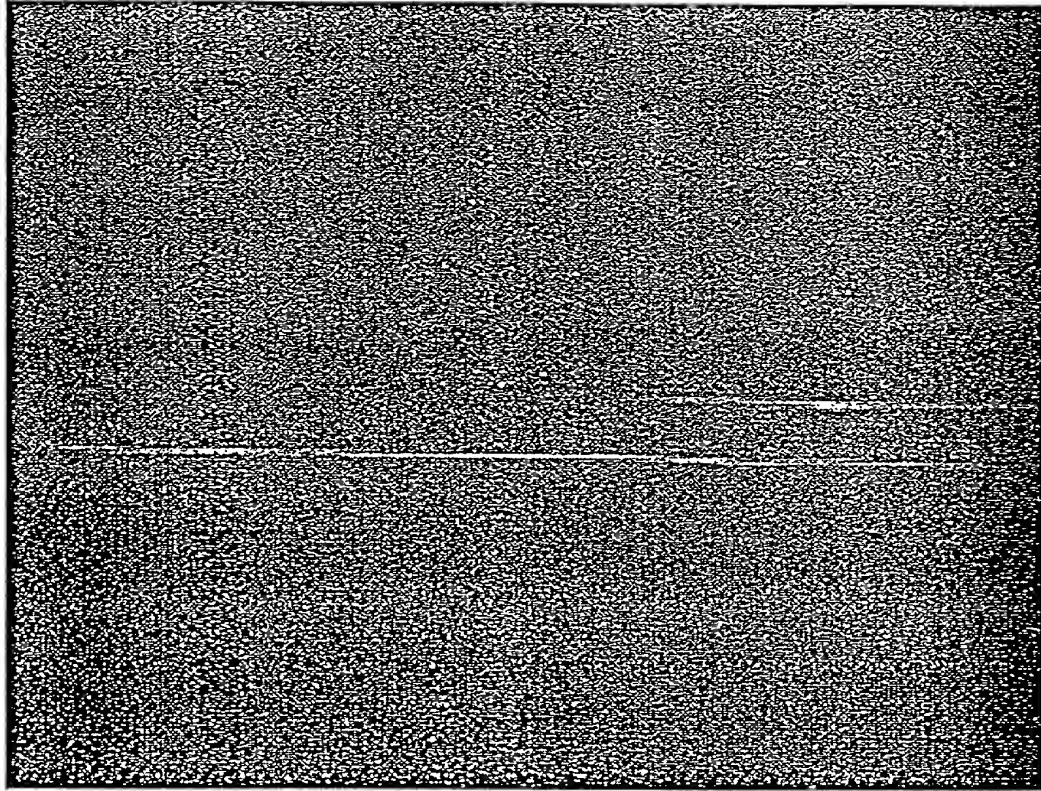


FIG. 29

FOI#2012-0488/60



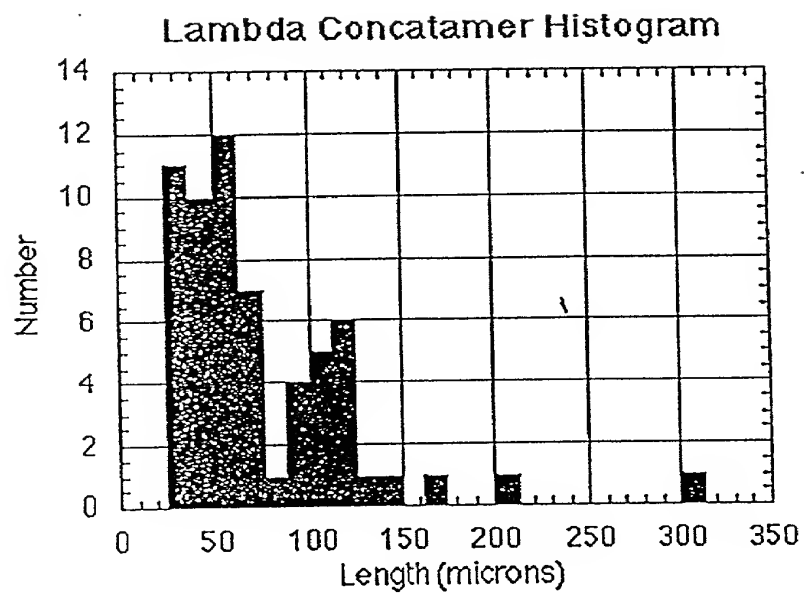


FIG. 30

10066-021-0340

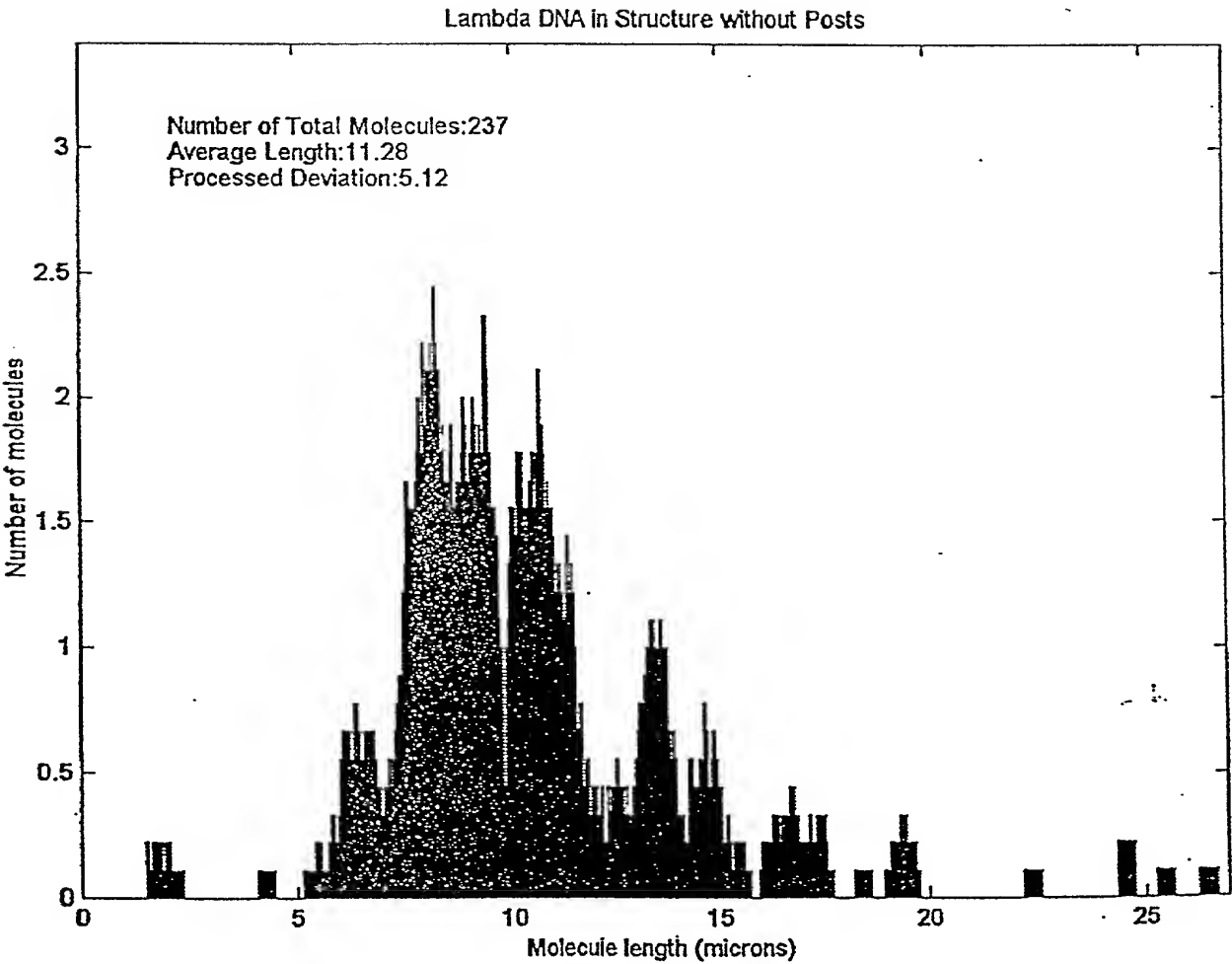


FIG. 31(a)

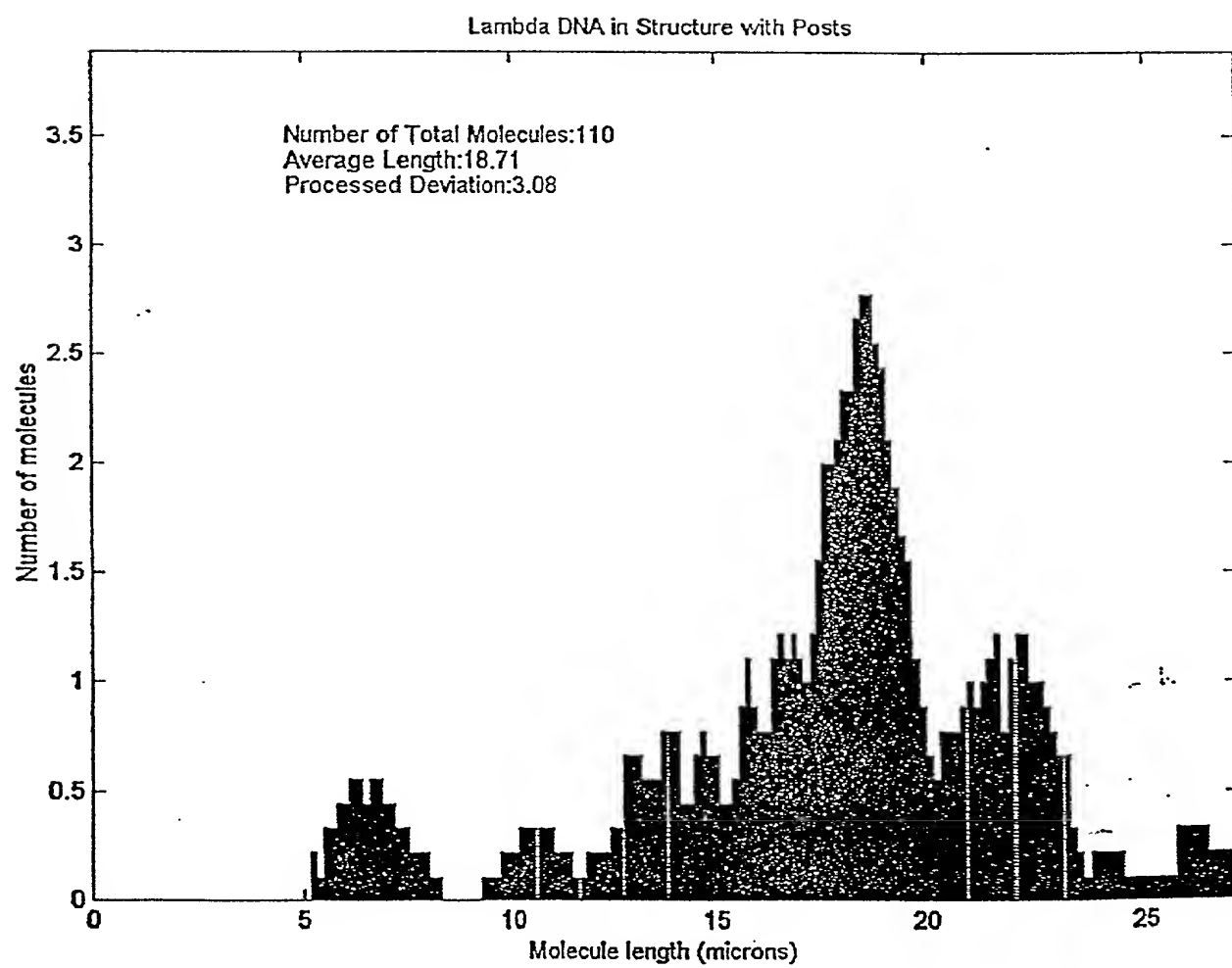


FIG. 31(b)

Beam 1

Beam 2

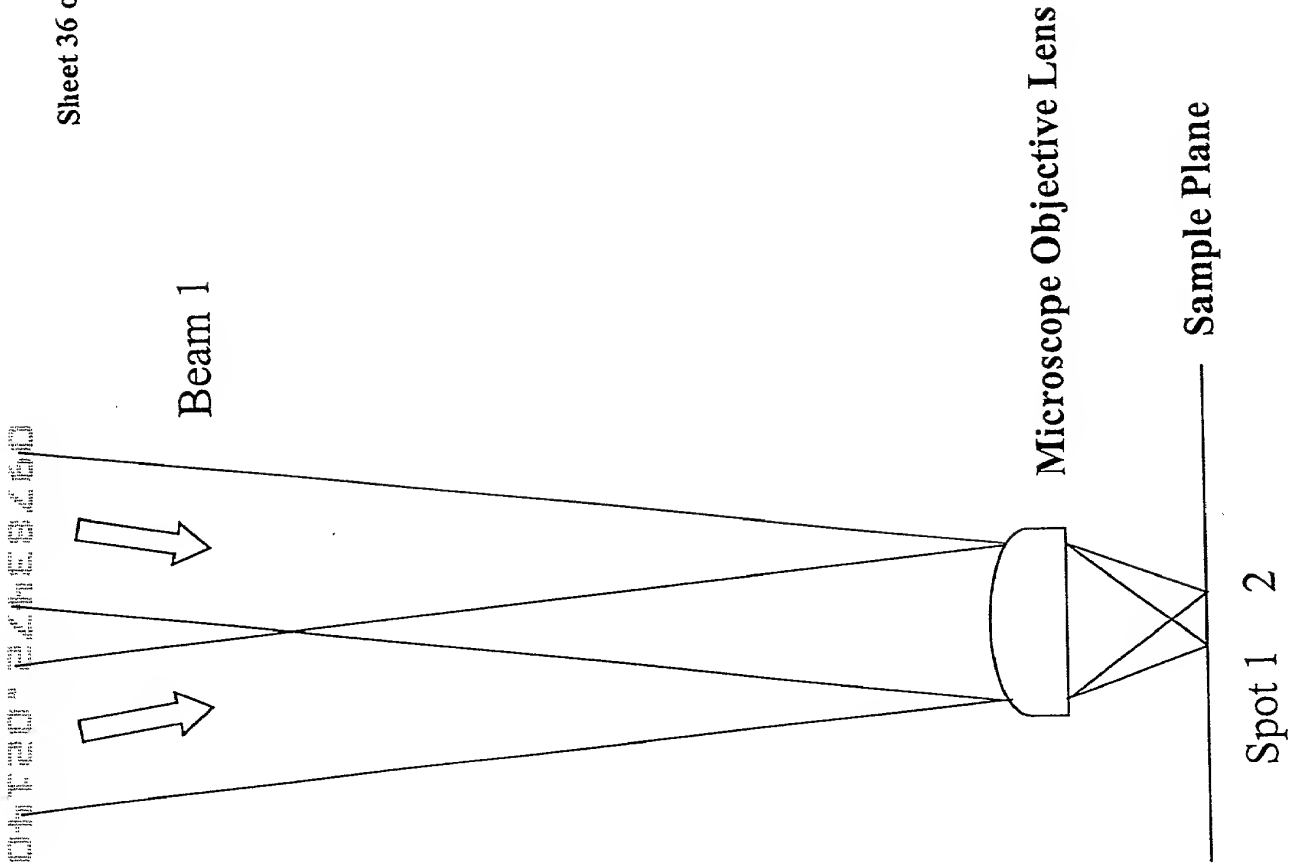
Optical  
Arrangement for  
Multiple Spot  
Formation

Microscope Objective Lens

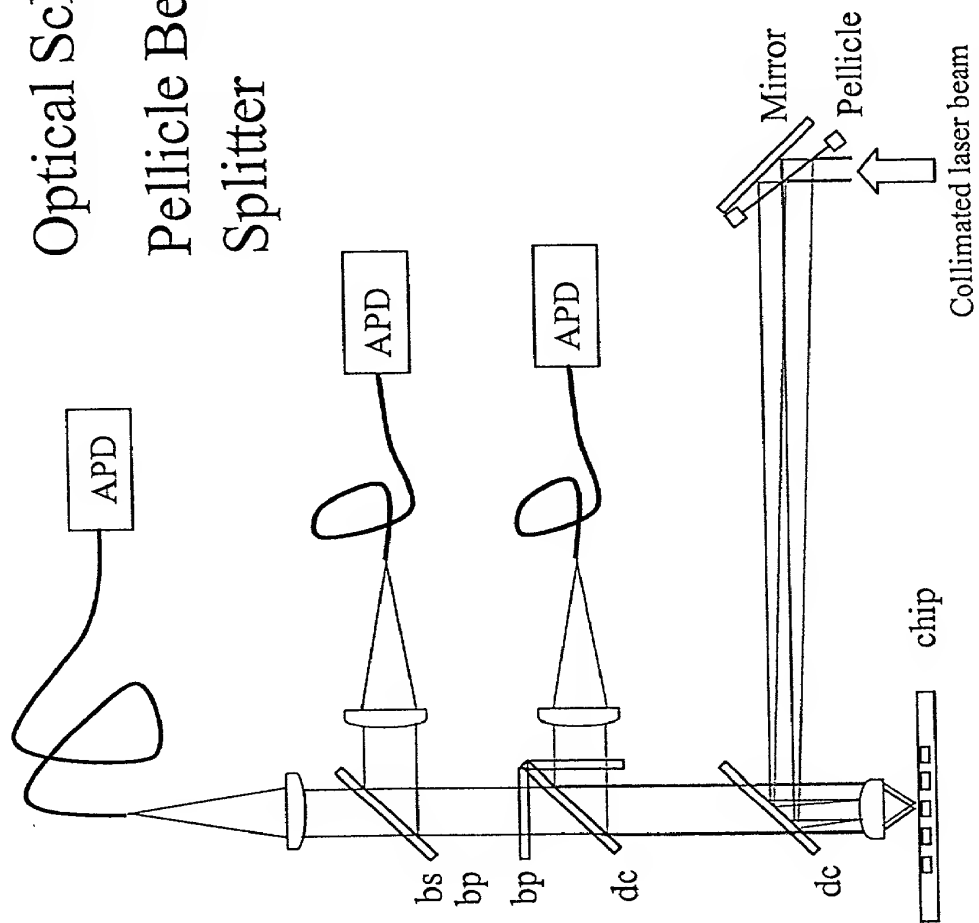
Sample Plane

Spot 1 2

FIG. 32



# Optical Scheme Pellicle Beam Splitter



# Optical Scheme

## Diffractive Optic

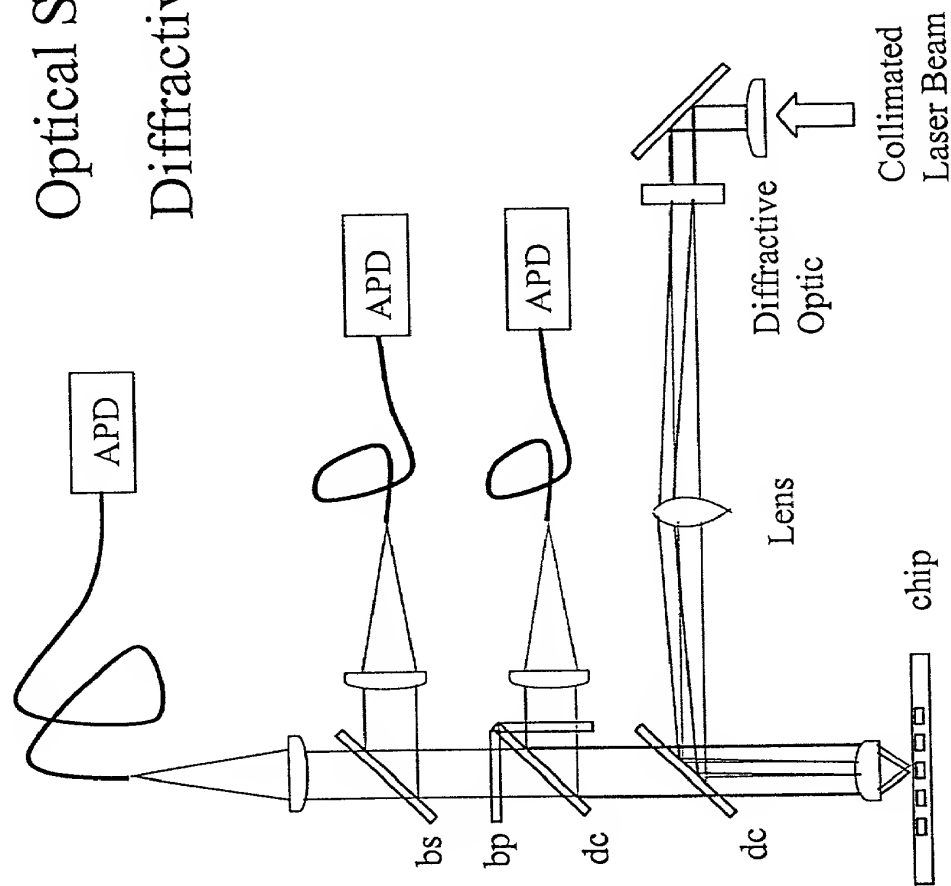


FIG. 34

10066-021

# Optical Arrangement for Single Spot with Interference Fringes

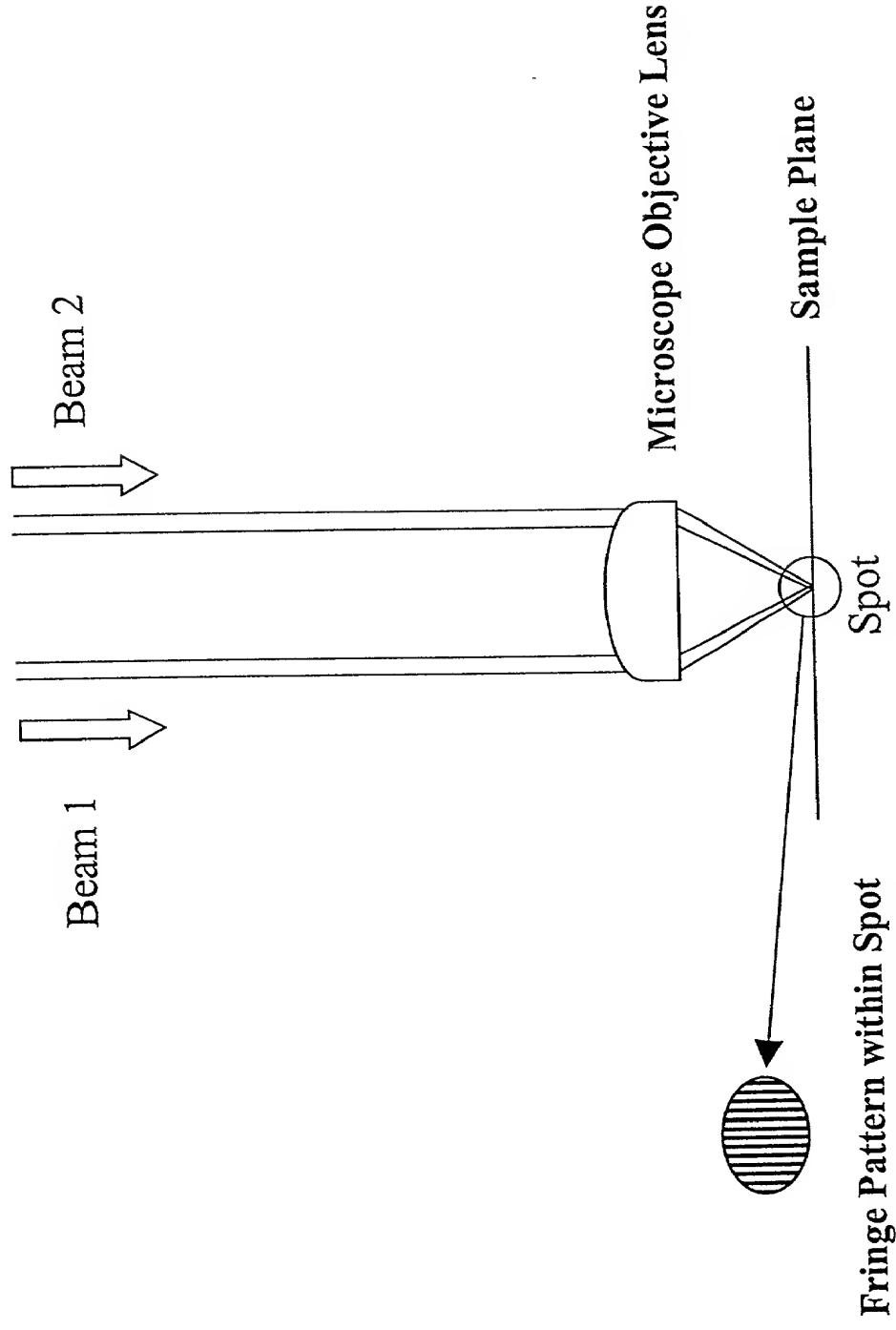


FIG. 35

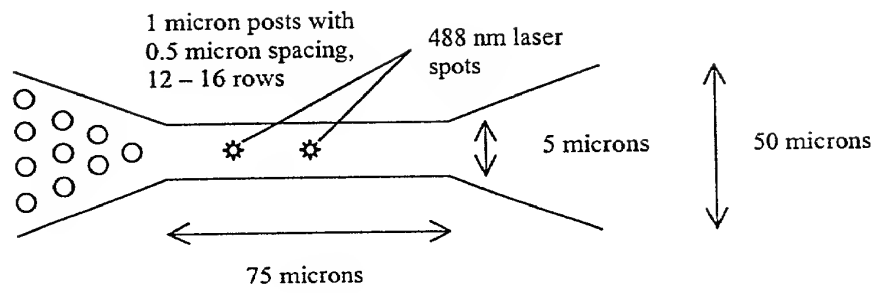


FIG. 36



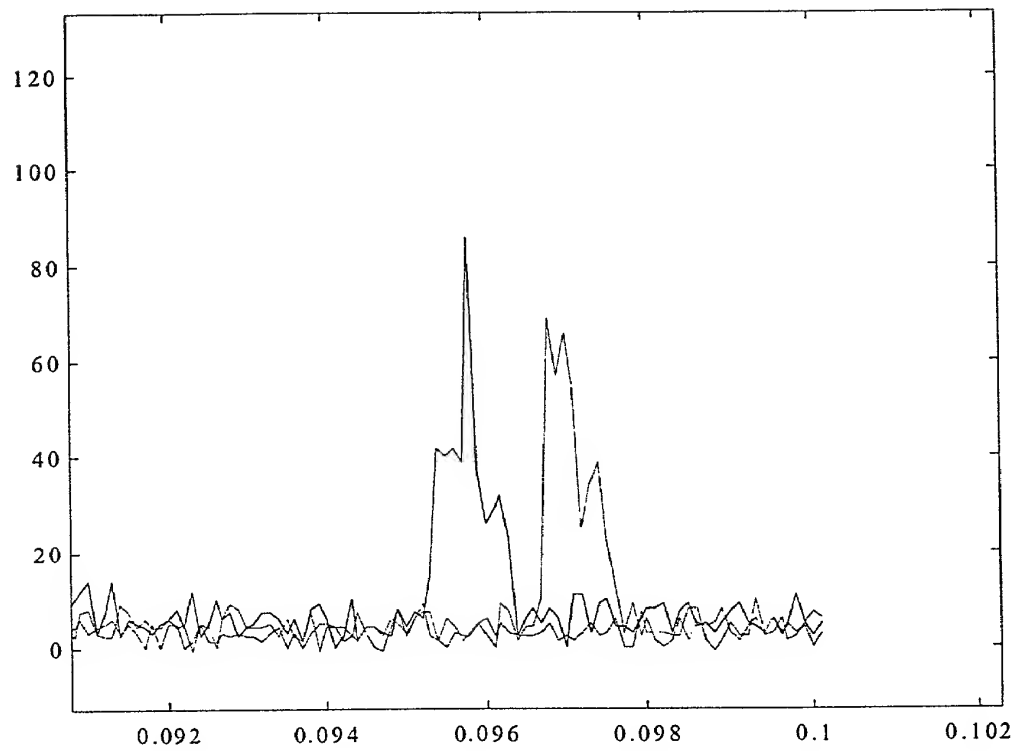


Fig. 37A

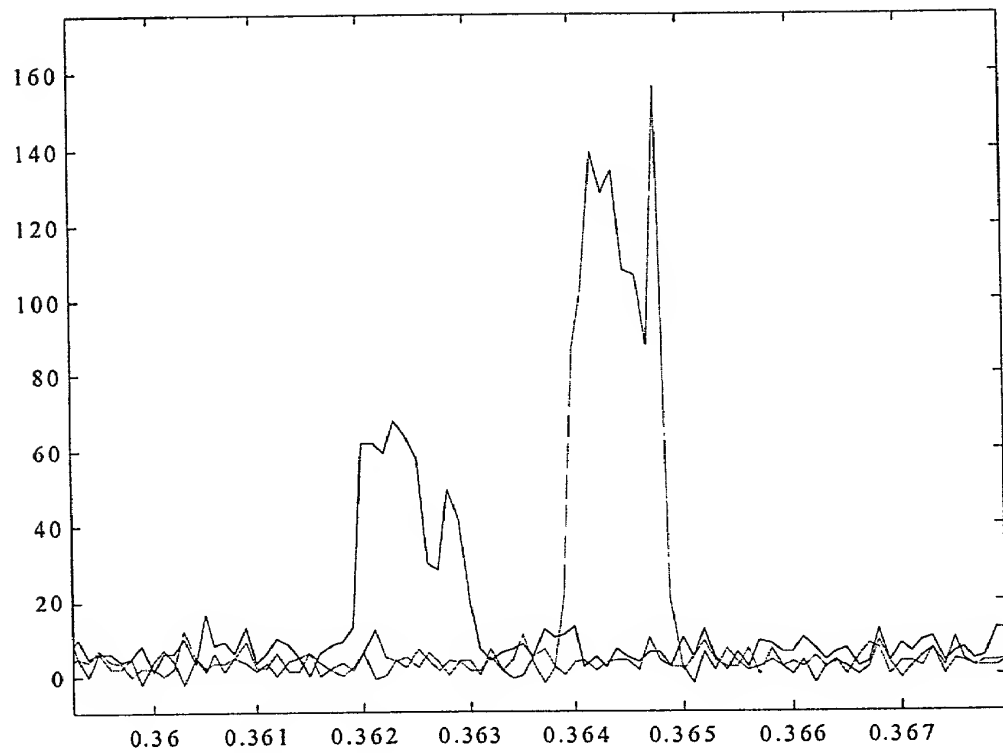


Fig. 37B

004120" 242360

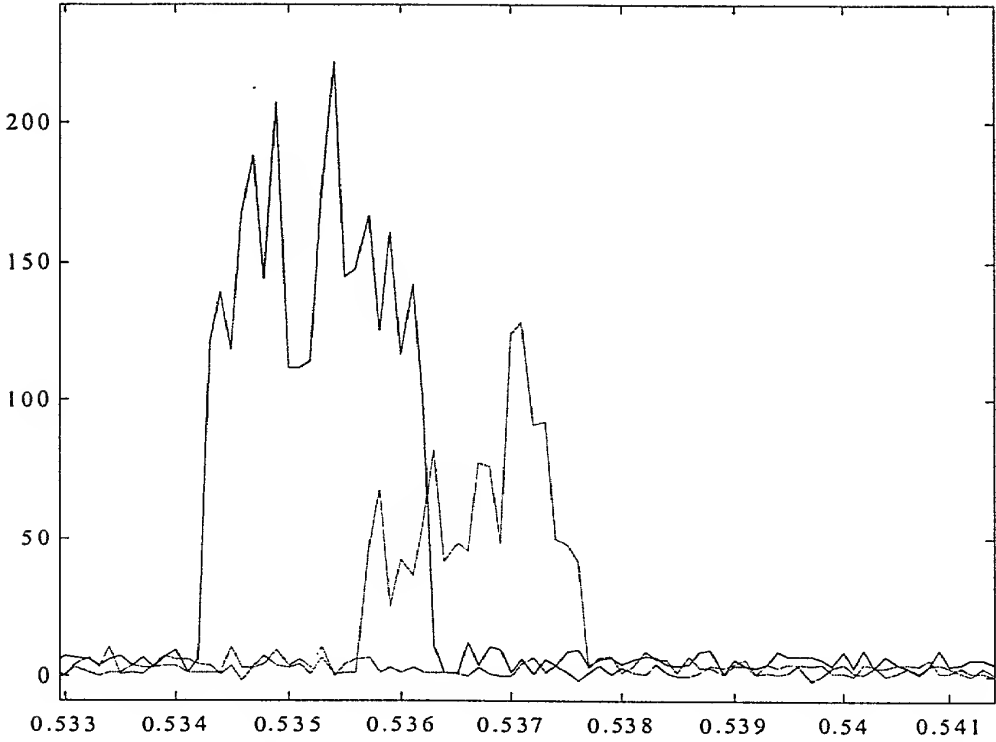


Fig. 37C

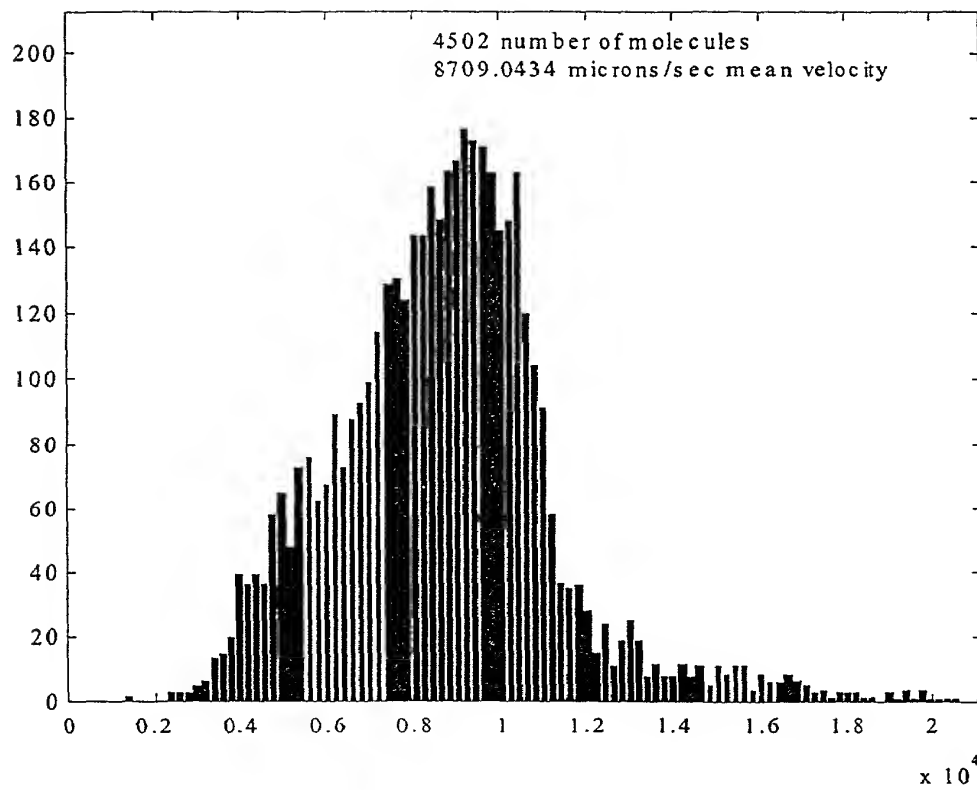


Fig. 38

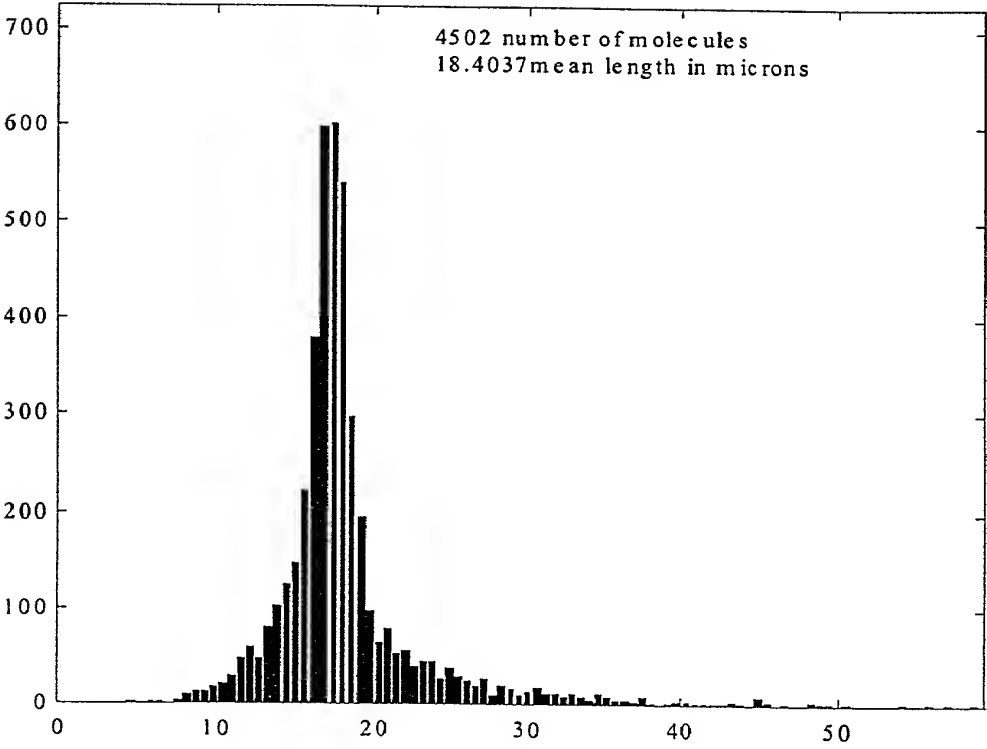


Fig. 39